Video Entry System

bpt

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VIDEO ENTRY SYSTEM FUNCTIONS

STANDARD

CALL

Calls can be made in one of two ways, depending on the type of entry panel:
- **pushbutton**: by simply pressing one of the buttons.
- **numerical call**: by entering the number of the user to be called.

When the call has been entered, the entry panel emits the "call entered" tone, and the receiver emits the "call received" tone. In the case of a video entry system, the video signal from the entry panel appears simultaneously on the monitor of the receiver. The duration of the call tone is programmable; when the programmed time has elapsed, the system is deactivated and the monitor switches off.

SIMULTANEOUS CALL

The system can be programmed so that a call can be routed to more than one receiver simultaneously: in this case, all the receivers will emit the call tone and their monitors will switch on (for video systems). The call can be answered from any of the receivers; the remaining receivers will switch to "busy".

CONFIDENTIALITY OF CONVERSATIONS

To ensure that conversations remain confidential, when a call is made from an entry panel to a receiver the conversation cannot be heard – and the entry panel video cannot be seen – from any of the other receivers. The conversation can be interrupted only by another call having a higher priority. The confidentiality of the conversation is also maintained in the case of a call from an entry panel, self-connection of a receiver or a simultaneous call (including those from inside the same apartment).

DOORBELL FUNCTION

This function can be set up by connecting a standard button directly to the terminals of receivers designed for this feature. When this button is activated, the receiver emits a call tone which is different from that which sounds when a call is made from an entry panel; the monitor, however, does not switch on. The call will be audible only from the receiver to which the button is connected, until the button is released.

CALL FROM STAIR-LANDING

A receiver (or interconnected group of receivers) can also be connected to a dedicated entry panel which is not connected to the other receivers on the riser. The dedicated entry panel can feature the same functions as the main entry panel (audio/video communication with confidentiality of conversations and actioning of the door lock).

A call between the dedicated entry panel and the receiver to which it is connected does not block the main line, which therefore remains open for any calls from the main entry panel to the other receivers.

STANDARD

DOOR LOCK RELEASE FROM RECEIVER

During the course of a call the user can press the button on the receiver in order to release the door lock corresponding to the entry panel. The door lock can be released either directly from the entry panel or using remote relay modules.

DOOR LOCK RELEASE FROM ENTRY PANEL

This function is available on digital entry panels or using dedicated access control modules. The door lock can be actioned using a valid numeric code, RFID Tag or IR key.

SELF-CONNECTION

When the system is not in use (i.e. when no calls are in progress), press the "self-connection" button on the receiver to activate video communication with the entry panel: the images from the entry panel will be displayed on the monitor of the receiver. If audio, too, is required, simply lift the handset or press the "hands free" button on the receiver.

CYCLIC OPERATION

If the system features more than one entry panel, it is possible to view all the video images in sequence by pressing "self-connection" on the receiver repeatedly. Systems can also be set up to display not only video images from the individual "block", but also those of the "main" entry panels (i.e. those common to all "blocks"). When the system has been activated, if a call is received from an entry panel, press the "self-connection" button to display the images from the remaining entry panels in the "block" from which the call is made. This operation terminates the call. The system remains activated until cut off by the timer.

AUXILIARY COMMANDS

All receivers feature at least two auxiliary commands (AUX) so that stair lighting, electrically-controlled gates etc. can be controlled by relay modules.

VIDEO ENTRY SYSTEM FUNCTIONS

BUILDING

Only for receivers featuring these functions

PRIVACY

The "privacy" function allows the user to disable the receiver and thus not to receive calls. This function is selected by pressing the corresponding key. An receiver set to "privacy" mode will not emit any call tone when a call is received. If the entry panel features a display, the "privacy" status of the receiver called will be displayed.

PANIC ALARM

This function allows the user to send a silent alarm or emergency signal to the porter switchboard. The porter switchboard will be alerted by an acoustic and luminous alarm signal. The signal will be recorded in the events memory.

EMERGENCY

This function, available only for receivers fitted with the corresponding terminals, makes it possible to connect a button to a generic "pulse generator" which, when actioned, sends an emergency/alarm signal to the porter switchboard without emitting any acoustic signal at the receiver. The porter switchboard will be alerted by an acoustic and luminous alarm signal, which will be recorded in the events memory.

INTERCOM

Only for receivers featuring these functions

INTERCOM FUNCTION BETWEEN RECEIVERS IN THE SAME APARTMENT

It is possible to transfer an audio call from one receiver to another by pressing one of the optional intercom buttons (from 3 to 10, depending on the model of the receiver). Calls between receivers maintain confidentiality of the conversation and have a duration of 60 seconds. The call can be interrupted by either of the receivers by replacing the handset (for receivers with handset) or interrupting the call (for hands-free models).

INTERCOM FUNCTION BETWEEN RECEIVERS IN DIFFERENT APARTMENTS

It is possible to transfer an audio call from one receiver to another by pressing one of the optional intercom buttons (from 3 to 10, depending on the model). The call will utilize the main line (riser), which means that no other calls can be made between an entry panel and another receiver. Calls between receivers maintain confidentiality of the conversation and have a duration of 60 seconds. The call can be interrupted by either of the receivers by replacing the handset (for receivers with handset) or interrupting the call (for hands-free models).

INCOMING CALL SIGNAL DURING A CONVERSATION BETWEEN RECEIVERS IN THE SAME APARTMENT

A call from an entry panel to an receiver which is already engaged in an intercom call with another receiver in the same apartment will generate a "beep". The video image from the entry panel making the call will be displayed on both the receivers engaged in the call. To respond to the call it is necessary to replace the handset (or press the hands free "end call" button), and then respond when the normal call tone is heard. If it is preferred not to interrupt the intercom conversation, the lock controlled by the calling entry panel can still be released. The entry panel sounds the "busy" signal while the "incoming call" signal is activated.

INCOMING CALL SIGNAL DURING A CONVERSATION BETWEEN RECEIVERS IN DIFFERENT APARTMENTS

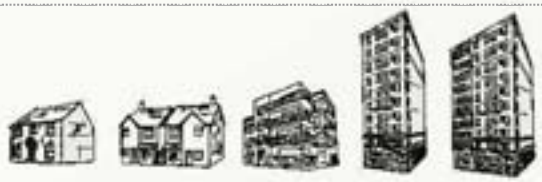
A call from an entry panel to an receiver which is already engaged in an intercom call with another receiver in a different apartment will generate a "beep". The video image from the entry panel making the call will be displayed only on the receiver being called; the receiver in the other apartment will receive no signal. To respond to the call it is necessary to replace the handset (or press the hands free "end call" button), and then respond when the normal call tone is heard. If it is preferred not to interrupt the intercom conversation, the lock controlled by the calling entry panel can still be released. The entry panel sounds the "busy" signal while the "incoming call" signal is activated.

TRANSFERRING A CALL

If the system features the intercom function, a call from an entry panel can be transferred to a different receiver. Whether the receiver is in the same apartment or a different apartment, the procedure for transferring the call is the same. When the call is received from the entry panel, it is necessary to answer normally, then make the intercom call to the receiver to which to transfer the call, wait until the receiver responds and finally end the call with the entry panel.

CHOOSING A VIDEO ENTRY SYSTEM

TYPES OF INSTALLATION

	- Small systems - Single-/multi-family systems - Single-entrance systems - Single-riser systems
	- Multiple-riser systems - Systems with riser with simple wiring - Systems with standalone access control
	- Systems with numerous users and long distances - Systems with porter - Systems with numerous residential blocks - Systems with limited number of simultaneous calls - Systems compatible with the use of fibre optics
	- Integration with hi-tech functions (home automation, CCTV, anti-intrusion) - High number of simultaneous audio/video conversations - Remote control/operation via IP protocol - OSD and voice mail on conventional receivers - Hierarchy-based porter service - Integration with VOIP telephone switchboards - Systems with centralized access control

TECHNICAL CHARACTERISTICS

Number of users
Number of main/secondary entry panels
Maximum distance between entry panels and power supply (metres)
Maximum distance between power supply and receivers (metres)
Maximum distance between "blocks" (metres)
Type of wiring for connection of riser
Type of wiring for connection of entry panels
Porter switchboard
Access control functions
Integration with telephone switchboards
Integration with BPT home automation systems
Integration with Brahms CCTV systems
Integration with anti-intrusion / technological alarm systems
Colour / B&W

FUNCTIONS

Call
Simultaneous call
Confidentiality of conversations
Call stair-landing from local entry panel
Self-connection
Privacy
Panic and emergency alarms
Intercom function between receivers in the same apartment
Intercom function between receivers in different apartments
"Incoming call" signal during conversations between receivers in the same apartment
"Incoming call" signal during conversations between receivers in different apartments
Call transfer function

FEATURES OF VIDEO ENTRY SYSTEMS

MULTI MEDIA 200	X1	300	XIP
	X1	300	XIP
		300	XIP
			XIP
2000	100	2000	unlimited*
10/80	3/NN	64/256	unlimited*
500	650	800	250
		750	750
-	-	750	unlimited
4 wires + coaxial + n (calls) VCM/60 + n (calls)	twisted pair UTP Cat 5 - VCM/1D	twisted pair UTP Cat 5 - VCM/1D	twisted pair UTP Cat 5 - VCM/1D
10 wires + coaxial + n (calls) VCM/130+n (calls)	twisted pair + power supply UTP Cat 5 - VCM/2D	3 twisted pairs + power supply UTP Cat 5 - VCM/4D	3 twisted pairs + power supply UTP Cat 5 - VCM/4D
✓	-	✓	✓
-	✓	-	✓
✓	-	✓	✓
-	-	-	✓
-	✓	-	✓
-	-	-	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
-	✓	✓	✓
✓	✓	✓	✓
-	✓	✓	✓
-	✓	✓	✓

* up to the limits of the network.

CHOOSING THE RECEIVERS

DESCRIPTION				
		OPALE	PERLA	MITHO
		Colour video receiver with hands-free audio, 4,3" LCD display, 16:9 format (Opale Wide) and 3,5" 4:3 format (Opale). Wall-mount installation. Colours: Fusion Black , Ice White.	Colour video receiver with hands-free audio, 3,5" LCD display, 4:3 format, recessed installation. Colours: Fusion Black , Ice White.	Colour video receiver with integrated handset and hands-free audio functions, 4.3" LCD touchscreen in 16:9 format, wall-mount installation. Colours: Fusion Black, Ice White.
ACCESSORIES		Up to 10 intercom menus as standard.	Up to 8 intercom menus as standard for video and up to 2 intercom menus for audio receiver.	Up to 10 intercom menus as standard. Table-top support available on request.
SYSTEMS		2F1 / 2F	2F1 / 2F	2F1 / 2F
CONTROLS	Door lock release	✓	✓	✓
	Cicling operation	✓	-	✓
	Auxiliary command	✓	✓	✓
	Auxiliary command	✓	✓	✓
FUNCTIONS	Melodies	✓	✓	✓
	Incoming call signal during a conversation between receivers in the same apartment	✓ 10	✓ 8	✓ 10
	Doorbell function disabling	✓	✓	✓
	Privacy of receiver	✓	✓	✓
SETTINGS	Volume control	✓	✓	✓
	Brightness control	✓	✓	✓
	Contrast control	-	-	-
	Colour control	✓	✓	✓
AUDIO VERSION				

The "Opale", "Perla", "Lynea" and "Ophera" audio/video receivers are also available in a version with an interface for connection to type "T" magnetic induction devices for the hard of hearing.

All audio/video and audio receivers feature an input for calls from the stair-landing.

VIDEO ENTRY SYSTEMS AND AUDIO RECEIVERS

	NOVA - NVMKIT/..	OPHERA	LYNEA - YV.. + YKP/...	LYNEA BASIC - YVL/...
	Colour video receiver with hands-free audio, 2" LCD display, 4:3 format, recessed installation. Colours: Anthracite Grey, White, Silver.	Colour video receiver with hands-free audio, 3.5" LCD display, 4:3 format, recessed installation. Colours: White or Silver body (both supplied with interchangeable décor panels).	Colour or B&W video receiver with handset, 3.5" LCD display, 4:3 format or 4" B&W CRT screen, 4:3 format, wall-mount installation. Colour: White.	Colour or B&W video receiver with handset, 3.5" LCD display, 4:3 format or 4" B&W CRT screen, 4:3 format, wall-mount installation. Colour: White.
	Adapters for most standard 6-module embedding boxes (included). Table-top support available on request.	Module with intercom buttons (up to 8) fitted as standard. Table-top support and wall-mounting brackets available on request.	Buttons, LEDs or call volume adjustment module, auxiliary loudspeaker (optional). Table-top support available on request.	Table-top support available on request.
	✓	✓	✓	✓
	✓	✓	✓	✓
	✓	✓	✓	✓
	✓	✓	✓	✓ (not for version 200)
	-	✓	✓ (not for version 200)	✓ (not for version 200)
	-	✓ 8	✓ 6	✓ 2 (with AUX 1/2 buttons)
	-	✓	-	-
	-	✓	-	-
	✓	✓	✓ (not for version 200)	✓ (not for version 200)
	✓	✓	✓	✓
	-	-	✓ (only for B&W version)	✓
	✓	✓	✓	✓

CHOOSING THE ENTRY PANELS

		PUSHBUTTON PANELS		
SYSTEMS				
		LITHOS	THANGRAM	TARGHA
		Monolithic audio and colour video entry panel created for the X1 two-wires system. Available with brushed stainless steel finishing; wall-mounted or recessed installation.	Modular entry panel (audio only or colour video); standard wall-mount or recessed installation with optional embedding boxes and horizontal and/or vertical panel alignment. Finishes: central section in Greyhound Grey or Metal and décor panels in a choice of colours.	Modular entry panel, audio only or colour or B&W video. Standard wall-mount or recessed installation with optional embedding boxes and horizontal and/or vertical panel alignment. Finishes: Greyhound Grey with décor panel in semi-matt Aluminium Grey or Anthracite Grey with décor panel in polished Aluminium Grey.
ACCESSORIES		single pushbuttons, double pushbuttons, double-height pushbutton, wall mount rain cover.	Single or double pushbuttons, double-height pushbuttons, or access control modules with keypad and RFID reader. Acoustic or visual status signalling.	Single- or double-pushbutton modules.
SYSTEMS				
CHARACTERISTICS	Alphanumerical keypad			
	Graphic display			
	Volume adjustment	✓	✓	✓
	Backlighting of keys	blue LEDs	blue LEDs	green LEDs
	Connection to door lock release	✓	✓	✓
	Access control function		✓	-

	DIGITAL PANELS		
	DIGITHA	TARGHA	TARGHA VR
	Monolithic vandal-resistant audio or colour video entry panel in stainless steel, digital calls complete with alphanumeric keypad and address book with 128x128 pixel 6-line LCD display; recessed or wall-mount installation using optional accessories.	Modular entry panel, audio only or colour or B&W video, digital calls complete with alphanumeric keypad and address book with 122x32 pixel 2-line graphic display; standard wall-mount or recessed installation using optional embedding box. Finishes: Greyhound with décor panel in matt aluminium or Anthracite Grey with décor panel in polished Aluminium Grey.	Monolithic vandal-resistant entry panel, audio only or colour or B&W video, digital calls complete with alphanumeric keypad and address book with 122x32 pixel 2-line graphic display; standard wall-mount or recessed installation using optional embedding box. Central section in polished steel with décor panel in Anthracite Grey metal alloy.
	Acoustic or visual status signalling. Voice messages assist use of entry panel.		
	2000 calls 2000 door/gate aperture codes	2000 calls 2000 door/gate aperture codes	2000 calls 2000 door/gate aperture codes
	Status and functions activated signalling	-	-
	✓	✓	✓
	(*)	green LEDs	green LEDs
	✓	✓	✓
	✓	✓	✓

	TARGHA VR
	Monolithic vandal-resistant entry panel, audio only or colour or B&W video. Standard wall-mount or recessed installation with optional embedding boxes and horizontal and/or vertical panel alignment. Finishes: central section in polished steel with décor panel in Anthracite Grey metal alloy.
	Audio or video entry panels with 0, 1 or 2 pushbuttons and entry panels with 6 pushbuttons.
	✓
	yellow LEDs
	✓
	-

(*) keypad illumination accessory available on reques

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OPALE

Hands-free recessed wall-mounted intercommunicating video receivers

With the Opale line, BPT enhances its range of video receivers, offering a stylish and discreet recessed model for any setting. Featuring the same style and design as the latest-generation video receivers, the new line offers two separate models: Opale and Opale Wide, which differ in the size of the display - 4.3'' 16:9 or 3.5'' 4:3 - in the "Touch Sensitive" keys that leave room for the Touch Screen with concealed keys in the Wide model and in certain auxiliary functions which are only featured in the top model, such as the video entry control voice mail and the list of porter calls.

- Design with soft, modern lines
- Picture from the entry panel in 16:9 format which can be modified to 4:3 (Wide model only)
- Easy to use

COMPATIBLE SYSTEMS

INTERNET PROTOCOL

2 FILI

VERSIONS AND COLOURS

Opale Wide

Fusion black

Ice white

Opale

Fusion black

Ice white

TECHNICAL CHARACTERISTICS

FUNCTIONS

- 4.3" 16:9 or 3.5" 4:3 colour LCD display (Opale Wide) (Opale)
- Full-duplex (Opale Wide) or Half Duplex (Opale) hands-free audio
- Door lock release
- Mute in conversation
- Self-connection of entry panels with cyclic selection
- Two controls to enable auxiliary functions
- Ring disabling with luminous signal
- Ten intercommunicating calls
- "Panic" button to call the Porter for help
- Programmable melodies
- Brightness control, contrast and colour saturation control
- Video entry control voice mail (10 voice mail + snapshot only for Opale Wide)
- Zoom
- Automatic answer function (Opale Wide)
- Porter Call (Aux2)
- Video toggle between simultaneous calling receivers (Master/Slave only Opale)

DIMENSIONS (LxHxP):

(LxHxD) 158x138x9 mm	recessed version
(LxHxD) 158x138x30.9 mm	wall-mounted version

ADDITIONAL EQUIPMENT

White frame for the Ice White version, black frame for the Fusion Black version (Opale Wide only)

INSTALLATION

The Opale line video receivers were designed for recessed installation using the dedicated OPALESI box. The compact size and adaptability of the mounting bracket to the most popular recessed boxes (503, 506E or Ophera PHI recessed box) also allow wall-mounting using the OPALEKP support.

CODES AND ARTICLES

VIDEO RECEIVERS

OPALE W WHITE	62100250	Hands-free recessed wall-mounted video receiver, 4.3" colour display, 16:9 Touch Screen, Ice White.
OPALE W BLACK	62100260	Hands-free recessed wall-mounted video receiver, 4.3" colour display, 16:9 Touch Screen, Fusion Black.
OPALE WHITE	62100270	Hands-free recessed wall-mounted video receiver, 3.5" colour display, 4:3 "Touch Sensitive" buttons, Ice White.
OPALE BLACK	62100280	Hands-free recessed wall-mounted video receiver, 3.5" colour display, 4:3 "Touch Sensitive" buttons, Fusion Black.

AUDIO RECIVERS

OPALEKP WHITE	62800360	Ice White wall bracket
OPALEKP BLACK	62800370	Fusion black wall bracket
OPALESI	62800380	Recessed box
OPALEKP WH BF	62800390	Ice white bracket. **Special version for the hearing impaired.**

PERLA

Audio and video receivers

The Perla wall-mounted audio and video receiver with 3.5" LCD colour display and hands-free audio offers excellent audio and video quality while consuming very little energy. The Made in Italy design with soft, elegant lines and the ergonomic layout of the controls give it a very pleasant appearance and make it easy to use. Available in Ice white and Fusion black, Perla can adapt to any setting in the home.

- A soft, modern look
- Excellent audio and video quality
- Easy to use

COMPATIBLE SYSTEMS

INTERNET PROTOCOL

2 FILI

VERSIONS AND COLOURS

Colour video receivers

Fusion black

Ice white

Audio receiver

Fusion black

Ice white

TECHNICAL CHARACTERISTICS

FUNCTIONS

- 3.5" LCD colour display (only for Audio receiver)
- Hands-free audio
- Door release
- Muting/reactivation of audio during conversation
- Self-connection of video from entry panels, with cyclic selection
- Controls for activating auxiliary functions
- Eight different lines for intercom facilities
- "Panic" button to call the Porter for assistance
- Ring tone disabling, with indicator light
- Ring tone volume adjusts over three levels (low, medium, high)
- Brightness adjustment
- Colour saturation adjustment
- Programmable melodies for calls from entry panel and stair landing
- Different melodies for calls from intercom and Porter
- Programmable number of rings for calls from entry panel
- Powersave video switching function switches between receivers connected simultaneously

DIMENSIONS (LxHxP):

Videocitofono 145x170x31 mm
Citofono 110x170x31 mm

CODES AND ARTICLES

VIDEO RECEIVERS

PEV BI	62100180	Video entry panel with 3,5" receiver with hands-free audio, recessed installation. Mounting bracked included. Colour Ice White.
PEV NF	62100190	Video entry panel with 3,5" receiver with hands-free audio, recessed installation. Mounting bracked included. Colour Fusion Black.
PEV BI BF	62100230	Video entry panel with 3,5" receiver, recessed installation. Colour Ice White. **Special version for the hearing impaired.**
PEV NF BF	62100240	Video entry panel with 3,5" receiver, recessed installation. Colour Fusion Black. **Special version for the hearing impaired.**

AUDIO RECEIVER

PEC BI	60540010	Hands-free audio receiver. Ring volume control over three levels, wall-mounted. Mounting bracket included. Color Ice white.
PEC NF	60540020	Hands-free audio receiver. Ring volume control over three levels, wall-mounted. Mounting bracket included. Color Fusion black.

MITHO

Colour touchscreen video receiver

Mitho is an innovative video receiver with a colour touchscreen which offers a host of hi-tech features.
The 4.3" screen is in 16:9 widescreen format for full-screen navigation using menus that require no visible keys.
Navigating through the various menus is simple and intuitive, using colour codes for immediate association of functions with different colours.
Mitho is much more than just a video receiver: when connected to BPT's "X1" two-wire system, Mitho provides a series of innovative functions including image zooming, voice/video messaging and text messages (from the porter, for example) as well as integrated handset and hands-free audio functions.

COLOURS

Fusion black

Ice white

- The world's first touchscreen video receiver
- Voice/video messaging mail
- Image zooming
- Porter switchboard

COMPATIBLE SYSTEMS

INTERNET PROTOCOL

2 WIRES

TECHNICAL CHARACTERISTICS

FUNCTIONS

- 4.3" widescreen LCD, 16:9 format, 480x272 pixels
- Touchscreen
- Hands-free integrated 2-channel audio
- Image zooming
- Voice/video mail – porter text messages
- 9 polyphonic melodies
- Concealed stylus for navigation
- Building function
- Wall-mount or table-top installation
- Colours: Fusion Black and Ice White

DIMENSIONS (WxHxD):

203.5x108.4x30.8 mm

ACCESSORIES: KIT FOR TABLE-TOP INSTALLATION

Mitho can also be installed on a table top using the MHKT support kit.
The support consists of an attractively-shaped base in robust 3 mm steel and a plastic adapter in Ice White or Fusion Black to match the two versions of the receiver.

MITHO SB: COLOUR VIDEO PORTER SWITCHBOARD

The Mitho SB is a colour video porter switchboard system for table-top installation, featuring a 4.3" LCD touch screen in 16:9 format and available in Fusion Black or Ice White.
As with all the other terminals in the "Mitho" range, navigation is extremely simple and intuitive, using colour codes for immediate association of functions with different colours. Features include image zoom/pan, video/voice mail and audio voice mail either using the handset or the hands-free feature.
Mitho SB is supplied complete with an elegant and practical table-top support comprising a base in robust 3 mm steel, designed to match the terminal, and an adapter in Ice White or Fusion Black.

CODES AND ARTICLES

VIDEO RECEIVERS

MITHO BI	62117500	Colour video receiver, 4.3" display in 16:9 format, touchscreen, integrated hands-free and handset audio, colour: Ice White
MITHO NF	62117600	Colour video receiver, 4.3" display in 16:9 format, touchscreen, integrated hands-free and handset audio, colour: Fusion Black
MITHO SB NF	62940020	Table-top porter switchboard with 4.3" 16:9 touch screen, hands-free audio and handset, colour Fusion Black.
MITHO SB BI	62940010	Table-top porter switchboard with 4.3" 16:9 touch screen, hands-free audio and handset, colour Ice White.

ACCESSORIES

VAS/100MH	67000700	Mitho power supply module
MHKT BI	62800250	Mitho kit for table-top installation, colour: Ice White
MHKT NF	62800260	Mitho kit for table-top installation, colour: Fusion Black

NOVA

Hands-free video receiver for recessed installation

BPT's exclusive hands-free colour video receiver designed for recessed installation. With its compact design, Nova can be inserted into a standard 6-module embedding box and fitted with most standard décor panels. Being compatible with all the other components in the system, Nova can be used in mixed systems with handset/hands-free or push-to-talk audio. Nova can also be installed on a table-top using the special kit (NST/61).

- The smallest-ever colour video receiver

COLOURS

White

Silver

Anthracite grey

COMPATIBLE SYSTEMS

INTERNET PROTOCOL

2 WIRES

TECHNICAL CHARACTERISTICS

FUNCTIONS

Audio-only module

- 2" colour monitor
- Colour saturation
- Brightness control
- Microphone
- Audio activation
- Self-connection of external entry panel
- Activation/selection of external entry panel
- Door lock release
- Operation indicator
- AUX 1 button for auxiliary centralized control of stair lights
- AUX 2 porter call
- Recessed/table-top installation

DIMENSIONS (WxHxD):

Embedding box, 6 standard modules 174x59x49.8 mm
Embedding box, 3 standard modules 96x59x49.8 mm

DÉCOR PANELS

The Nova receiver is compatible with the most popular décor panels (Vimar, Ave, BTicino, Gewiss, ABB, Legrand). For details, refer to BPT's catalogue of video entry systems.

N.B.: The décor panels shown in the illustrations are NOT included.

ACCESSORIES. KIT FOR TABLE-TOP INSTALLATION

The kit for table-top installation (NST/61) consists of an anthracite grey support casing, which gives the receiver maximum versatility. Complete with connector cable with RJ45 socket.

CODES AND ARTICLES

VIDEO RECEIVERS

NVMKIT/X1 BB	62151900	Colour video receiver with 2" display, hands-free audio, colour: white, 3/6-module frames and plastic adaptors included.
NVMKIT/X1 GR	62152000	Colour video receiver with 2" display, hands-free audio, colour: anthracite grey, 3/6-module frames and plastic adaptors included.
NVMKIT/X1 SV	62152100	Colour video receiver with 2" display, hands-free audio, colour: silver, 3/6-module frames and plastic adaptors included.

ACCESSORIES

NST/61	62828310	Kit for table-top installation (NVMKIT/.., colour: anthracite grey

OPHERA

Hands-free intercom video receiver for recessed installation

Video receiver for recessed installation, 3.5" colour monitor, complete with interchangeable coloured décor panels. TFT LCD monitor for superb colour quality, and hi-fi audio for great acoustic performance. Ophera is fitted with a tilting screen for a perfect viewing angle and is supplied complete with intercom module as standard.

- Intercom module and coloured décor panels
- Tilting display
- Hi-fi audio

COLOURS

Body white, décor panel in artic blue, orange and white

Body silver, décor panel in black, white and grey

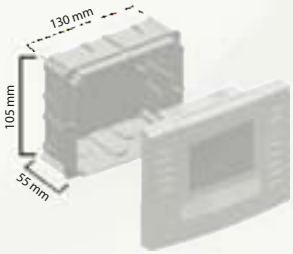
COMPATIBLE SYSTEMS

INTERNET PROTOCOL

2 WIRES

TECHNICAL CHARACTERISTICS

FUNCTIONS



- Volume control
- Brightness control
- Contrast control
- Door lock release (green LED)
- Mute (red LED)
- Communication ON/OFF (red LED)
- Activation/Selection of entry panel
- AUX 1 button for auxiliary centralized control of stair lights
- AUX 2 porter call (red LED)
- Ringtone muting (red LED)

DIMENSIONS (WxHxD):

159X125X17.5 mm (recessed installation)

TILTING DISPLAY

This model features a top-hinged screen that can be tilted outwards by up to 20° for perfect viewing by even the tallest users.

ACCESSORIES: KITS FOR WALL-MOUNT AND TABLE-TOP INSTALLATION

The new kits for wall-mounting (PHKP) and table-top installation (PHKT) of the Ophera receiver are available in white or silver.
The wall-mounting kit (PHKP) can be used for wall installation in a 3-module box, either vertically or horizontally, or in a 60mm circular box.
The table-top installation kit (PHKT) consists of a pre-assembled table-top stand with non-slip rubber pads on the bottom surface.

CODES AND ARTICLES

VIDEO RECEIVERS

OPHERA	62116600	3.5" colour monitor, hands-free audio, recessed installation, body colour: white. 3 coloured décor panels (orange, Arctic blue and white), complete with intercom module/PHI embedding box.
OPHERA SV	62117000	3.5" colour monitor, hands-free audio, recessed installation, body colour: metallic grey. 3 coloured décor panels (grey, white and black), complete with intercom module/PHI embedding box.
OPHERA /BF	62100060	3.5" colour monitor, hands-free audio, recessed installation, body colour: white. 3 coloured décor panels (orange, Artic blue and white), complete with intercom module/PHI embedding box. **Special version for the hearing impaired.**

ACCESSORIES

PHI	62828400	Embedding box for Ophera. Dimensions: 130x114x53.5 mm
PHKP BB	62800020	Wall-mounting kit, colour: white
PHKP SV	62800030	Wall-mounting kit, colour: silver
PHKT BB	62800040	Kit for table-top installation, complete with cable and RJ plug, colour: white
PHKT SV	62800050	Kit for table-top installation, complete with cable and RJ plug, colour: silver

LYNEA

Wall-mounted audio and audio/video receiver

With its elegant design and slim styling, the Lynea audio and video receivers will blend perfectly with any setting. Both the 4" B&W version and the 3.5" colour version allow the user to select the number of rings and to choose from four different call melodies for calls from the external entry panel and from the doorbell on the landing.
The receiver features 6 slots for additional buttons and/or accessories, as well as a table-top support.

- 2 versions: colour and B&W
- Extra-slim design

VERSIONS

Colour or B&W video receiver

Audio receiver

COMPATIBLE SYSTEMS

INTERNET PROTOCOL

2 WIRES

TECHNICAL CHARACTERISTICS

FUNCTIONS

- Monitor: 4" B&W or 3.5" colour
- Brightness control
- Contrast control (B&W version)
- Colour saturation (colour version)
- Door lock release
- Activation/Selection of entry panels
- AUX 1 button for auxiliary centralized control of stair lights
- AUX 2 auxiliary control (porter call)
- Space for installation of up to 6 intercom call buttons (YP3-YPL)
- Wall-mount installation

DIMENSIONS (WxHxD):

Audio/Video receiver 205x215x63 mm
Audio receiver 98x215x63 mm

ACCESSORIES: KIT FOR TABLE-TOP INSTALLATION

Both versions of Lynea – audio and audio/video – are available in the table-top version using the special supports (YKT/C and YKT/F).

CODES AND ARTICLES

VIDEO AND AUDIO MODULES

YV	62109200	4" B&W monitor module, colour: white. For use with audio receiver module mounted on wall bracket (YKP/301)
YVC	62109300	3.5" LCD colour monitor, colour: white. For use with audio receiver module mounted on wall bracket (YKP/301)
YKP/301.01	62827901	Multi-function audio receiver module with wall-mounting bracket for YV and YVC moniitor modules, colour: white
YKP/301.01 BF	62800071	Multi-function audio receiver module with wall-mounting bracket for YV and YVC monitor modules, colour: white. Special versions for the hearing impaired

AUDIO RECEIVERS

YC/300	60244100	Standard audio receiver, colour: white
YC/300A	60244200	Multifunction audio receiver, colour: white

ACCESSORIES

YKT/F	62825900	Kit for table-top installation of YV/...+YKP/... consisting of base and cable with RJ45 plug, colour: white. Socket not included.
YKT/C	61818300	Kit for table-top installation of YC/... consisting of base and cable with RJ45 plug, colour: white. Socket not included.
YP/3	61817900	Expansion kit for YC/300A and YKP/301 receivers (3 buttons).
YAL	61818100	Supplementary loudspeaker for call tone.
YPL	61818000	Attenuator / Switch unit with warning light.

LYNEA BASIC

Colour and B/W wall-mounted video receiver

BPT offers the market Lynea Basic Color, the evolution of the traditional receiver Lynea Basic, with new functions and suitable for all needs. The new Lynea Basic Color features a 3.5" colour monitor, the intercom function and the powersave video switching function between master and slave monitor as standard.
In the case of simultaneous calls, the audio/video conversation is operative on the receiver from which the user replies to the call, whether this is the main (Master) or secondary (Slave) unit, without the need for power supply or supplementary wiring.

- Extra-slim design
- Intercom function
- MASTER/SLAVE function

VERSIONS

Colour or B&W video receiver

COMPATIBLE SYSTEMS

INTERNET PROTOCOL

2 WIRES

TECHNICAL CHARACTERISTICS

FUNCTIONS

- Monitor: 4" B&W or 3.5" colour
- Brightness control
- Contrast control (B&W version)
- Colour saturation (colour version)
- Door lock release
- Activation/Selection of entry panels
- AUX 1 button for auxiliary centralized control of stair lights or intercom call
- AUX 2 auxiliary control (porter call) or intercom call
- Wall-mount and table/top installation

DIMENSIONS (WxHxD):

Video receiver 205x215x63 mm

MASTER SLAVE FUNCTION

In the case of simultaneous calls, the audio/video conversation is operative on the receiver from which the user replies to the call, whether this is the main (Master) or secondary (Slave) unit, without the need for power supply or supplementary wiring.

NEW INTERCOM FUNCTION

Intercom group: the two auxiliary pushbuttons can also be programmed as intercom buttons.

CODES AND ARTICLES

VIDEO AND AUDIO MODULES

YVL301.01	62117202	Lynea Basic video receiver with 4" b/w monitor. Colour: white
YVCL301	62100160	Lynea Basic video receiver with LCD 3.5" colour monitor. Colour: white
YVL301.01BF	62100052	Lynea Basic video receiver with 4" b/w monitor. Colour: white. **Special versions for the hearing impaired.**

LITHOS

Monolithic colour video entry panel

Lithos is the new monolithic colour video entry panel created by BPT for the X1 two-wires system. Compact and ultra-slim (protruding just 30 mm from the wall), Lithos will blend perfectly into any setting, thanks to its soft lines and elegant brushed stainless steel finish.
Lithos can be fitted with single or double pushbuttons for single-family or two-family systems, and features the intercom function as standard without the need for supplementary power supply. In addition, it can be used to create systems designed to handle up to four calls.
Lithos can be installed wall-mounted or recessed.

COMPATIBLE SYSTEM

2 WIRES

bpt
X1

PLUS

WALL-MOUNT - RECESSED INSTALLATION

The new Lithos entry panel can be installed on a wall or recessed – its ultra-slim profile makes Lithos the ideal choice for any type of architectural setting. If built into the wall using the special embedding box, Lithos is just 6.5 mm in depth, and with its gently-rounded lines is especially discrete and refined.

wall-mounted

recessed

FINISHES

With its soft lines and finishes in brushed stainless steel, Lithos is a truly elegant and refined entry panel.

UNMATCHED VIDEO QUALITY

With its ultra-modern sensors and built-in digital image-processing algorithms, Lithos guarantees superlative video quality in any ambient conditions, day or night.
The sophisticated light guide system, developed jointly with the Plast Optica Research Centre (a division of FIAT's research centre), guarantees perfect night-time illumination. The latest digital sensors, together with sophisticated image-processing algorithms, guarantee superlative video quality in any ambient conditions.

IMPACT-RESISTANT AND WATERTIGHT

Lithos are built to last. With their incredibly robust construction and IP54 protection rating.

IP54

PLUS

AUDIO OR VIDEO ENTRY PANEL VERSIONS

Lithos is available in audio or video version.

Video version

Audio version

SINGLE OR DOUBLE PUSHBUTTONS

Lithos can be fitted with single or double pushbuttons for single-family or two-family systems. Replacement of the pushbuttons is quick and easy, without having to remove the external surround.

Lithos with
1 pushbutton

Lithos with
2 pushbuttons

Lithos with
4 pushbuttons

ACCESSORIES FOR AUDIO OR VIDEO ENTRY PANELS

Single
pushbutton

Double-height
pushbutton

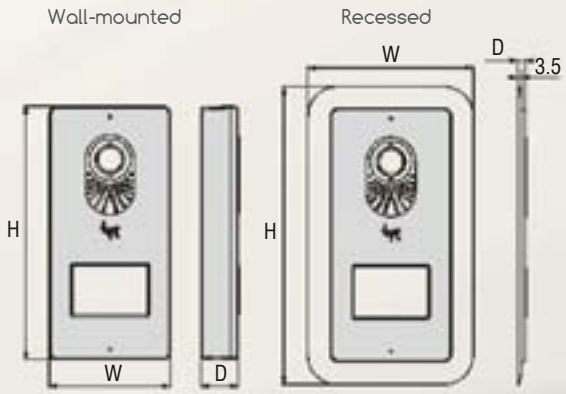
Double
pushbutton

Embedding
box

Frame

Wall rainshield

TECHNICAL CHARACTERISTICS - EXTERNAL



DIMENSIONS

	W (mm)	H (mm)	D (mm)
Wall-mounted	99	207	30
Recessed	135	243	6.5(*) / (**)

(*) Embedding box: depth 52 mm; protrusion from wall: 6.5 mm
(**) Frame included

CODES AND ARTICLES

ENTRY PANELS

LVC/01 code 62020070

Video entry panel; thermoplastic body in stainless steel

Circuit board for X1 system, microphone and loudspeaker. NTSC/PAL video camera, resolution 680x512, horizontal angle of aperture 94°. Caller illumination using 24 high-efficiency LEDs.
Protection rating IP 54
Dimensions (WxHxD): 99x207x30 mm
Adjustment of microphone/loudspeaker volume and door lock release time.
Local command for door lock, inputs for door lock release buttons. Blue LEDs (4) for backlighting of keys with name label. Manual or software programming via PC.

LC/01 code 60090650

Audio entry panel; thermoplastic body in stainless steel

Circuit board for X1 system, microphone and loudspeaker
Protection rating IP 54
Dimensions (WxHxD): 99x207x30 mm
Adjustment of microphone/loudspeaker volume and door lock release time.
Local command for door lock, inputs for door lock release buttons. Blue LEDs (4) for backlighting of keys with name label. Manual or software programming via PC.

ACCESSORIES

DPS code 61800030

Single pushbutton complete with support and external protective cover, transparent UV-resistant polycarbonate

Name window.
Dimensions (WxHxD): 20x60x14 mm.

DPH code 61800040

Double-height pushbutton complete with support and external protective cover, transparent UV-resistant polycarbonate

Name window.
Dimensions (WxHxD): 40x60x14 mm.

DPD code 61800050

Double pushbutton complete with support and external protective cover, transparent UV-resistant polycarbonate

Name window.
Dimensions (WxHxD): 20x60x14 mm.

LTP code 61800410

Wall rainshield

Rain cover in painted stainless steel to be used for audio entry panels (LC/01) and video entry panels (LVC/01).
Dimensions (WxHxD): 102,4x208,6x49,5 mm.

LCI code 61800420

Embedding frame

Tecnopolymer PC/ABS grey frame for recessed mounting

To be used for any Lithos entry panel.
Dimensions (WxHxD): 135x243x29,5 (3,5)mm.

LSI code 60090640

Plastic embedding box

To be used for any Lithos entry panel type.
Dimensions (WxHxD): 127x235x54,5 mm.

THANGRAM

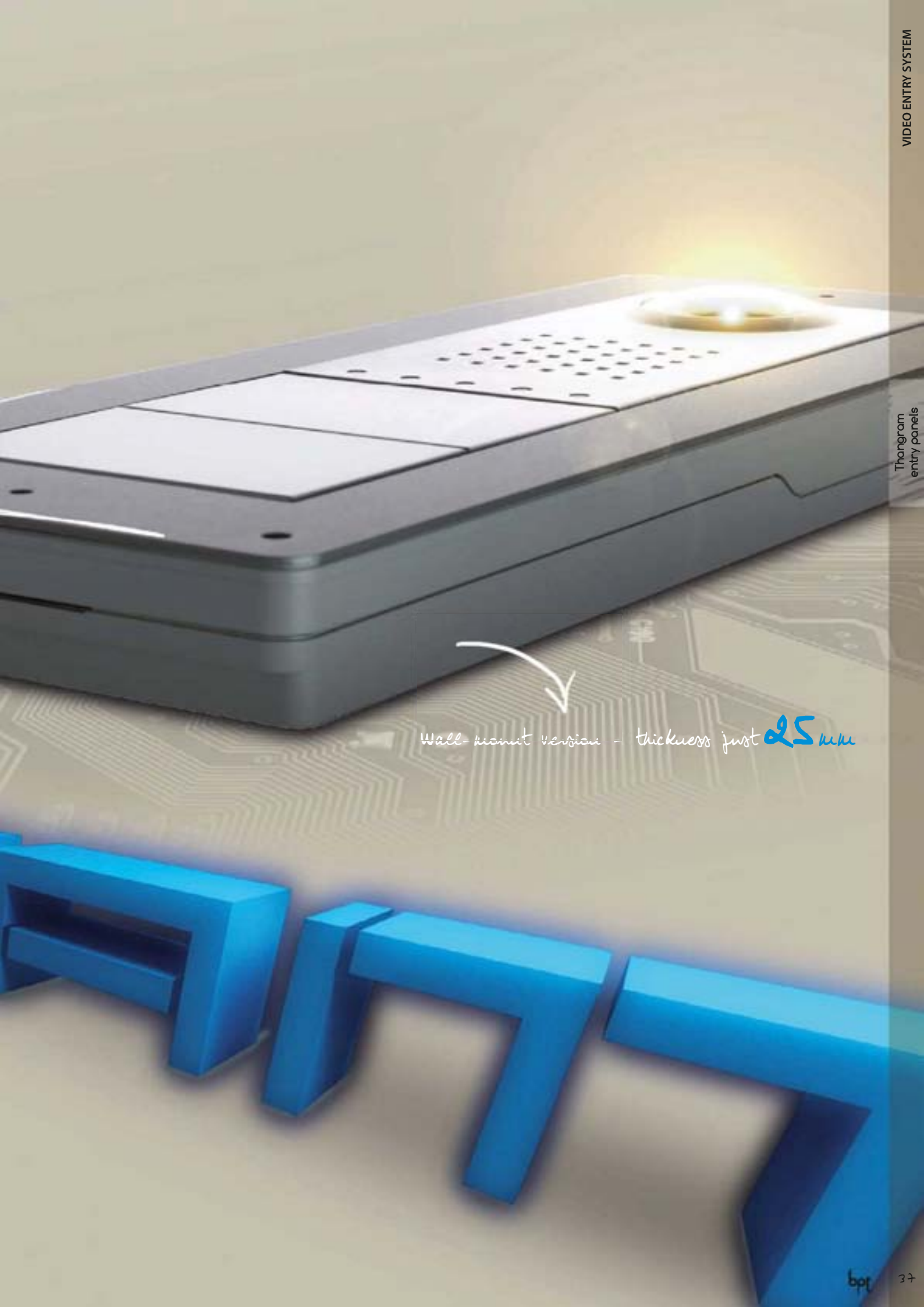
Digital generation

Thangram is a BPT's line of modular entry panels: it is the first designed for use with the new IP digital-technology system (XIP system), and the only model that offers such superlative-quality colour video.
The entry panels in the Thangram range are distinctive for their attractive, innovative styling, ultra-slim design, unparalleled performance and the possibility of creating any type of entry panel by combining just 7 elements.
A new generation of entry panels that are both beautiful and sophisticated.

COMPATIBLE SYSTEMS

INTERNET PROTOCOL

2 WIRES


Wall-mount version - thickness just 25 mm

PLUS

THE ONLY WALL-MOUNT ENTRY PANEL THAT'S JUST 25MM IN THICKNESS

At 25mm in thickness when wall-mounted and just 2mm when recessed, Thangram is the only ultra-slim entry panel that is eye-catching for its looks rather than for its bulk. With its attractive styling and clean lines, this new entry panel from BPT artfully blends discreet millimetre-thin appearance with elegant, modern design. The internal components are positioned with care so that this entry panel is beautiful to look at but compact and refined, and will blend with any setting.

wall-mounted

recessed

SUPERB VIDEO QUALITY, DAY AND NIGHT

The entry panels in the Thangram range feature cutting-edge technology in the form of sensors that utilize sophisticated digital image processing algorithms to give superlative video quality in any ambient conditions. In addition, the sophisticated light guide system, developed jointly with the Plast Optica Research Centre (a division of FIAT's research centre), guarantees perfect night-time illumination.

EXTERNAL FINISH

The Thangram line of external entry panels is available in a Greyhound or Metal finish. Coloured LEDs with silk-screened symbols for immediate identification of each function.

Greyhound

Metal

PLUS

SEVEN COMPONENTS, AN INFINITY OF COMBINATIONS

An infinite number of combinations using a small number of parts. In Oriental culture, Tangram (in Chinese the "seven boards of skill") is a game that stimulates the imagination and intuition. BPT takes inspiration from this traditional game, creating a unique and highly-original range of entry panels which can be combined in numerous ways: Thangram. The seven elements of a video entry panel – a skilful blend of ancient tradition and the technology of the future.

COLOURS FOR DÉCOR PANELS

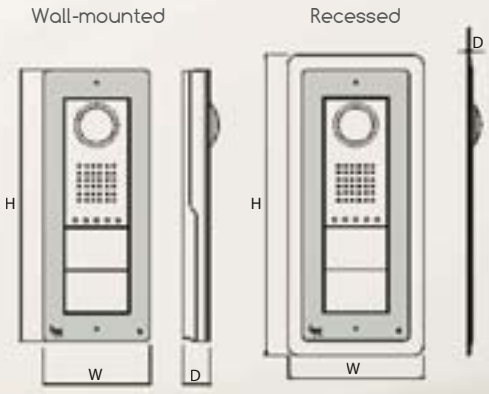
The Thangram range includes décor panels in numerous colours to give your entry panel a truly distinctive look. Thangram does not see things in black and white.

IMPACT-RESISTANT AND WATERTIGHT

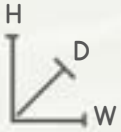
The panels in the Thangram range are built to last. With their incredibly robust construction and IP54 protection rating, they truly have nothing to fear, day or night, summer or winter.

IP54

TECHNICAL CHARACTERISTICS - EXTERNAL



DIMENSIONS



	W (mm)	H (mm)	D (mm)
Wall-mounted	99	254	25
Recessed	127	281	2*

(*) Embedding box: depth 54.5 mm; protrusion from wall: 2 mm.

PERFECT COLOUR IN ANY LIGHT

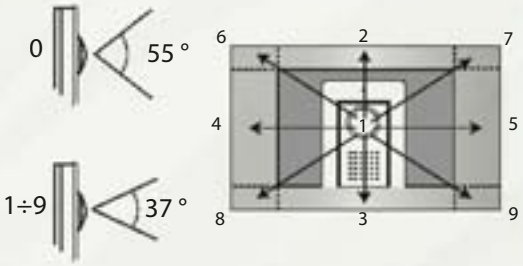
The sophisticated light guide system, developed jointly with the Plast Optica Research Centre (a division of FIAT's research centre), guarantees perfect night-time illumination. The latest digital sensors, together with sophisticated image-processing algorithms, guarantee superlative video quality in any ambient conditions.

INFORMATION BY OSD

Using the OSD (On Screen Display), Thangram adds to the image from the entry panel a range of information such as door status (open / closed), the entry panel from which the call comes, etc. Information is available for any BPT receiver .
The function is activated simply by the programming tool (PCS / XIP).

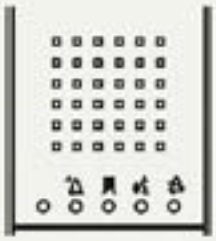
DIGITAL ADJUSTMENT OF ANGLE OF APERTURE

Thangram features the "wide eye" system (angle of lens aperture: 55°), which makes it possible to use the camera to display a wide field of vision (for example, from a distance of 50 cm from the entry panel, the camera can capture an image 86 cm in width and 57 cm in height). At the moment of installation of the entry panel, the angle of aperture can be reduced to as little as 37° by digitally adjusting the zoom,and the camera can be oriented in the desired direction.



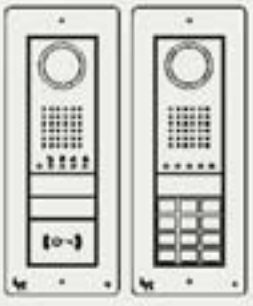
SUPERB AUDIO AND ACOUSTIC/VISUAL CONTROL OF STATUS

Special processing of the audio signal guarantees excellent performance even in the noisiest areas. Small details that make the product great: acoustic and visual signalling of the status and operation of the system make Thangram simple to use for the elderly and for those with problems of hearing or eyesight.



ACCESS CONTROL - RFID

The level of security of the access point can be augmented in any configuration using the RFID reader or the keypad. Up to 500 different codes can be handled by manual programming, and up to 1,500 by programming with software tools.
The access control keypad can also be used to make digital calls (numerical codes), which drastically reduces the dimensions of the external entry panel.



TECHNICAL CHARACTERISTICS - INTERNAL

REFINED AND ELEGANT OUTSIDE, CLEAN AND SIMPLE INSIDE

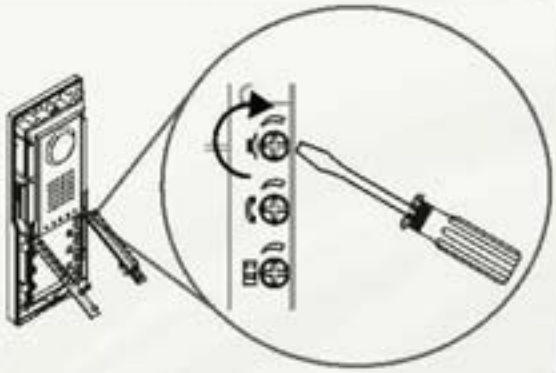
Thangram is not merely sophisticated technology and Italian styling; it is also simplicity of installation and the internal layout of the components. The rational layout of all the components (potentiometers, terminals, microphone etc.) saves time during installation and set-up.
The circuit board is totally protected against atmospheric agents and possible damage during installation or maintenance.

CHANGING THE NAME TAG IN TWO SWIFT STROKES

Replacement of the name tag is quick and easy, without having to remove the external surround. Using a screwdriver and lightly pressing the pushbutton cover, the name tag can easily be removed and replaced.

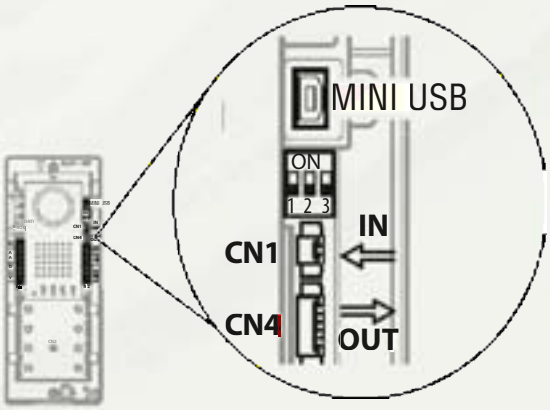
SIMPLE ADJUSTMENTS AND EASE OF ACCESS

The volume of the microphone and the loudspeaker and the actioning time for the door lock release can be adjusted simply by removing the front panel and lifting up the rubber protective covers, and without having to access any electrical parts.



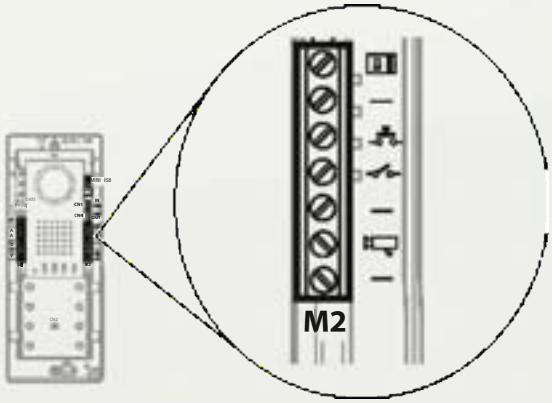
QUICK, EASY CONNECTIONS

The modular design of the unit is further facilitated by the use of flat cables with pre-fitted connectors, supplied as standard with the pushbutton panels. The external audio/video entry panel and the pushbutton panels are all connected using a pre-wired cable, making installation quicker and simpler. The socket for the software programming tool and the DIP-switches for adapting the line impedance (XIP version only) can be accessed by simply removing the protective rubber cover.



A COMPLETE RANGE OF FUNCTIONS FOR EVERY REQUIREMENT

Although extremely compact, Thangram features all the functions for which BPT's entry panels are justly renowned, while at the same time the wiring could not be simpler. The "service" terminal strip can be used to connect the door lock, a door release button, a door status signalling device and an ON/OFF switch for external lighting systems.



COMPONENTS

AUDIO AND VIDEO ENTRY PANELS

Audio entry panel Metal

Audio entry panel Greyhound

Video entry panel Metal

Audio entry panel Greyhound

The Greyhound version of Thangram features a décor panel in Aluminium finish, and can be customized using all the other décor panels in the range.
The Metal version is supplied without a décor panel, but can be customized using all the décor panels in the range.

DÉCOR PANELS

Décor panels in a wide range of colours are available so that you can customize your Thangram entry panel as desired.

STANDARD DÉCOR PANELS

Metal

Matt Black

Aluminium

SPECIAL DÉCOR PANELS (AVAILABLE ON REQUEST)

Red

Orange

White

Glossy Black

Green

Blue

ACCESSORIES

FOR AUDIO RECEIVERS, VIDEO RECEIVERS AND PUSHBUTTON PANELS

Supplementary pushbutton panel

Single pushbutton

Double-height pushbutton

Double pushbutton

Single cover Greyhound

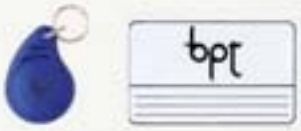
Single cover Metal

Double cover Greyhound

Double cover Metal

FOR ENTRY PANELS WITH DIGITAL CALL AND/OR ACCESS CONTROL

RFID Reader


RFID identifiers (keyring or badge versions)

Access control keypad Greyhound

Access control keypad Metal

FOR RECESSED INSTALLATION

Embedding box

Frame Greyhound

Frame Metal

Wall rainshield

Embedding box

EXAMPLES OF COMPOSITION

PUSHBUTTON ENTRY PANELS

Audio entry panel with 7 buttons

Video entry panel with 14 buttons

Video entry panel with 28 buttons

ENTRY PANELS WITH KEYPAD ACCESS CONTROL

Audio entry panel

Video entry panel

Video entry panel and supplementary pushbutton panel

ENTRY PANELS WITH BADGE ACCESS CONTROL

Audio entry panel

Video entry panel and supplementary pushbutton panel

DÉCOR PANELS

Entry panels in Greyhound finish are fitted with décor panel in Aluminium

Entry panels in Metal finish are supplied without the décor panel.
Any décor panel from our range may be fitted

MAXIMUM EXPANDABILITY

Depending on the type of pushbutton selected, systems with more than 100 users can be created.
Double pushbuttons can be used to create extra-compact entry panels.

Type of pushbutton	Maximum number of Calls
Single pushbuttons	104
Double-height pushbuttons	52
Double pushbuttons	108

INSTALLATION

The entry panels in the Thangram range can be wall-mounted or recessed into the wall.
For recessed installation, the embedding box and the décor panel must be ordered separately.

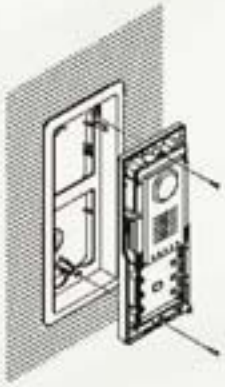
DÉCOR PANEL FIXING

Easy fixing using the key included

WALL-MOUNTED

Wall-mount installation, thickness 25 mm.

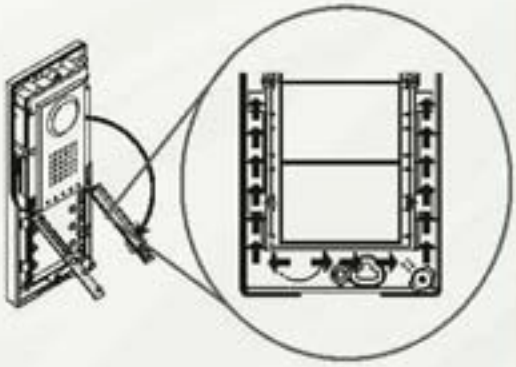
RECESSED



Recessed installation, thickness 2 mm.

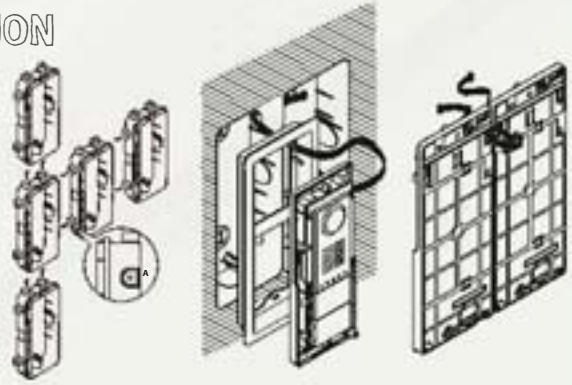
QUICK, SIMPLE WIRING

The protective rubber covers protect the terminal strips and the connections. All the wiring can be neatly and quickly positioned in the special conduits.



HORIZONTAL AND VERTICAL COMPOSITION

Whether to position the units horizontally or vertically (or both) is merely a question of aesthetics or dictated by the space available.
Recessed installation is facilitated by self-locking embedding boxes, and the supplementary pushbutton panels are connected simply using the pre-wired flat cables (supplied).

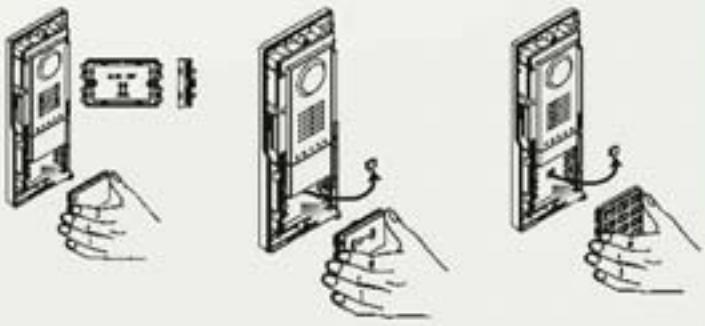


Self-locking boxes

Flat-cable

QUICK PLUG-IN MODULAR SYSTEM

Thanks to the exclusive "quick plug-in" system, assembling the various elements in Thangram is extremely simple: just insert the required module into an unused compartment and click it into position: Thangram..... child's play.



CODES AND ARTICLES

AUDIO ENTRY PANELS

DC/01 ME code 60090020

Audio entry panel; thermoplastic body in satin-finish chrome

Circuit board for X1 system, microphone and loudspeaker
Protection rating IP 54
Dimensions (WxHxD): 99x254x25 mm
Décor panel not included

Adjustment of microphone/loudspeaker volume and door lock release time. Simple connection using pre-wired flat cables (supplied as standard) and mini USB connector for programming with software tool. Local command for door lock, inputs for door lock release buttons, door status signalling devices, output connector for activation of external cameras. Blue LEDs (8) for backlighting of keys with name label. LEDs for visual control of the status of the system: red "call connected" LED, green "door open" LED, yellow "call in progress" LED, blue "system busy" LED.

DC/01 code 60090010

Audio entry panel; thermoplastic body finished in Greyhound Grey and décor panel in Aluminium

Circuit board for X1 system, microphone and loudspeaker
Protection rating IP 54
Dimensions (WxHxD): 99x254x25 mm

Adjustment of microphone/loudspeaker volume and door lock release time. Simple connection using pre-wired flat cables (supplied as standard) and mini USB connector for programming with software tool. Local command for door lock, inputs for door lock release buttons, door status signalling devices, output connector for activation of external cameras. Blue LEDs (8) for backlighting of keys with name label. LEDs for visual control of the status of the system: red "call connected" LED, green "door open" LED, yellow "call in progress" LED, blue "system busy" LED.

DC/08 ME code 60090040

Audio entry panel; thermoplastic body finished in Metal-colour satin-finish chrome

Circuit board for XIP, microphone and loudspeaker
Protection rating IP 54
Dimensions (WxHxD): 99x254x25 mm
Décor panel not included

Adjustment of microphone/loudspeaker volume and door lock release time. Simple connection using pre-wired flat cables (supplied as standard) and mini USB connector for programming with software tool. DIP-switches for adjustment of the line impedance. Local command for door lock, inputs for door lock release buttons, door status signalling devices, output connector for activation of external cameras. Blue LEDs (8) for backlighting of keys with name label. LEDs for visual control of the status of the system: red "call connected" LED, green "door open" LED, yellow "call in progress" LED, blue "system busy" LED.

DC/08 code 60090030

Audio entry panel; thermoplastic body finished in Greyhound Grey and décor panel in Aluminium

Circuit board for XIP, microphone and loudspeaker
Protection rating IP 54
Dimensions (WxHxD): 99x254x25 mm

Adjustment of microphone/loudspeaker volume and door lock release time. Simple connection using pre-wired flat cables (supplied as standard) and mini USB connector for programming with software tool. DIP-switches for adjustment of the line impedance. Local command for door lock, inputs for door lock release buttons, door status signalling devices, output connector for activation of external cameras. Blue LEDs (8) for backlighting of keys with name label. LEDs for visual control of the status of the system: red "call connected" LED, green "door open" LED, yellow "call in progress" LED, blue "system busy" LED.

VIDEO ENTRY PANELS

DVC/01 ME code 62020020

Colour video entry panel; thermoplastic body finished in Metal-colour satin-finish chrome

Circuit board for X1 system, microphone and loudspeaker. NTSC/PAL video camera, resolution 680x512 with built-in microprocessor for digital signal processing, horizontal angle of aperture 82° with digitally-controlled zoom. Caller illumination using 4 high-efficiency LEDs.
Protection rating IP 54
Dimensions (WxHxD): 99x254x25 mm
Décor panel not included

Adjustment of microphone/loudspeaker volume and door lock release time. Simple connection using pre-wired flat cables (supplied as standard) and mini USB connector for programming with software tool. Local command for door lock, inputs for door lock release buttons, door status signalling devices, output connector for activation of external cameras. Blue LEDs (8) for backlighting of keys with name label. LEDs for visual control of the status of the system: red "call connected" LED, green "door open" LED, yellow "call in progress" LED, blue "system busy" LED.

DVC/01 code 62020010

Colour video entry panel; thermoplastic body finished in Greyhound Grey and décor panel in Aluminium

Circuit board for X1 system, microphone and loudspeaker. NTSC/PAL video camera, resolution 680x512 with built-in microprocessor for digital signal processing, horizontal angle of aperture 82° with digitally-controlled zoom. Caller illumination using 4 high-efficiency LEDs.
Protection rating IP 54
Dimensions (WxHxD): 99x254x25 mm

Adjustment of microphone/loudspeaker volume and door lock release time. Simple connection using pre-wired flat cables (supplied as standard) and mini USB connector for programming with software tool. Local command for door lock, inputs for door lock release buttons, door status signalling devices, output connector for activation of external cameras. Blue LEDs (8) for backlighting of keys with name label. LEDs for visual control of the status of the system: red "call connected" LED, green "door open" LED, yellow "call in progress" LED, blue "system busy" LED.

DVC/08 ME code 62020040

Colour video entry panel; thermoplastic body finished in Metal-colour satin-finish chrome

Circuit board for XIP, microphone and loudspeaker.

NTSC/PAL video camera, resolution 680x512 with built-in microprocessor for digital signal processing, horizontal angle of aperture 82° with digitally-controlled zoom. Caller illumination using 4 high-efficiency LEDs
Protection rating IP 54
Dimensions (WxHxD): 99x254x25 mm
Décor panel not included

Adjustment of microphone/loudspeaker volume and door lock release time. Simple connection using pre-wired flat cables (supplied as standard) and mini USB connector for programming with software tool. DIP-switches for adjustment of the line impedance. Local command for door lock, inputs for door lock release buttons, door status signalling devices, output connector for activation of external cameras. Blue LEDs (8) for backlighting of keys with name label. LEDs for visual control of the status of the system: red "call connected" LED, green "door open" LED, yellow "call in progress" LED, blue "system busy" LED.

DVC/08 code 62020030

Colour video entry panel; thermoplastic body finished in Greyhound Grey and décor panel in Aluminium

Circuit board for XIP, microphone and loudspeaker.
NTSC/PAL video camera, resolution 680x512 with built-in microprocessor for digital signal processing, horizontal angle of aperture 82° with digitally-controlled zoom. Caller illumination using 4 high-efficiency LEDs
Protection rating IP 54
Dimensions (WxHxD): 99x254x25 mm

Adjustment of microphone/loudspeaker volume and door lock release time. Simple connection using pre-wired flat cables (supplied as standard) and mini USB connector for programming with software tool. DIP-switches for adjustment of the line impedance. Local command for door lock, inputs for door lock release buttons, door status signalling devices, output connector for activation of external cameras. Blue LEDs (8) for backlighting of keys with name label. LEDs for visual control of the status of the system: red "call connected" LED, green "door open" LED, yellow "call in progress" LED, blue "system busy" LED.

ACCESSORIES FOR INSTALLATION

DSI code 60090050

Embedding box in plastic

With self-locking couplings and pre-formed push-out apertures for wiring conduits. Can be used with any entry panel and with the supplementary pushbutton panel (DP0).

Dimensions (WxHxD): 140x294x54.5 mm.

DCI code 61800010

Frame for recessed installation in grey PC/ABS thermoplastic

For use with audio entry panels (DC/01, DC/08), video entry panels (DVC/01, DVC/08) and supplementary pushbutton panels (DP0).

Dimensions (WxHxD): 127x280x30 (1.2) mm.

DCI ME code 61800020

Frame for recessed installation in plastic with brushed chrome finish, Metal colour

For use with audio entry panels (DC/01 ME, DC/08 ME), video entry panels (DVC/01 ME, DVC/08 ME) and supplementary pushbutton panels (DP0).

Dimensions (WxHxD): 127x280x30 (1.2) mm.

DTP cod. 61800390

Rain cover in painted stainless steel

To be used for audio entry panels (DC/01 ME, DC/08 ME), video entry panels (DVC/01 ME, DVC/08 ME) and DP0 push buttons panels.

Dimensions (WxHxD): 103,8x252,8x45,5 mm

DSM cod. 60090630

Embedding box in galvanized stainless steel

To be used for audio entry panels (DC/01 ME, DC/08 ME), video entry panels (DVC/01 ME, DVC/08 ME) and DP0 push buttons panels.

Dimensions (WxHxD): 115x269x47 mm

DÉCOR PANELS

DPF AL code 60090060

Décor panel in anodized aluminium

For use with audio entry panels, video entry panels and supplementary pushbutton panels (DP0), colour Aluminium, support in grey PC/ABS thermoplastic.
Dimensions (WxHxD): 99x254x18 mm.

DPF NF code 60090070

Décor panel in anodized aluminium

For use with audio entry panels, video entry panels and supplementary pushbutton panels (DP0), colour Matt Black, support in grey PC/ABS thermoplastic.
Dimensions (WxHxD): 99x254x18 mm.

DPF ME code 60090530

Décor panel in anodized aluminium

For use with audio entry panels, video entry panels and supplementary pushbutton panels (DP0), colour Metal and support in grey PC/ABS thermoplastic.
Dimensions (WxHxD): 99x254x18 mm.

DPF AR code 60090610

Décor panel in anodized aluminium

For use with audio entry panels, video entry panels and supplementary pushbutton panels (DP0), colour Orange, support in grey PC/ABS thermoplastic.
Available on request.

DPF BI code 60090580

Décor panel in anodized aluminium

For use with audio entry panels, video entry panels and supplementary pushbutton panels (DP0), colour White, support in grey PC/ABS thermoplastic.
Available on request.

DPF BL code 60090570

Décor panel in anodized aluminium

For use with audio entry panels, video entry panels and supplementary pushbutton panels (DP0), colour Blue, support in grey PC/ABS thermoplastic.
Available on request.

DPF NL code 60090620

Décor panel in anodized aluminium

For use with audio entry panels, video entry panels and supplementary pushbutton panels (DP0), colour polished Black, support in grey PC/ABS thermoplastic.
Available on request.

DPF RS code 60090560

Décor panel in anodized aluminium

For use with audio entry panels, video entry panels and supplementary pushbutton panels (DP0), colour Red, support in grey PC/ABS thermoplastic.
Available on request.

DPF VD code 60090590

Décor panel in anodized aluminium

For use with audio entry panels, video entry panels and supplementary pushbutton panels (DP0), colour Green, support in grey PC/ABS thermoplastic.
Available on request.

SUPPLEMENTARY PUSHBUTTON PANEL, PUSHBUTTONS, COVERS

DP0 code 60090080

Supplementary pushbutton panel for audio and video entry panels, thermoplastic

Can be fitted with single or double pushbuttons (maximum 10) and double-height pushbuttons (maximum 5). Complete with 20 LEDs for backlighting of keys with name label.

Dimensions (WxHxD): 99x254x25 mm.

DPS code 61800030

Single pushbutton complete with support and external protective cover, transparent UV-resistant polycarbonate

Name window.
Dimensions (WxHxD): 20x60x14 mm.

DPH code 61800040

Double-height pushbutton complete with support and external protective cover, transparent UV-resistant polycarbonate

Name window.
Dimensions (WxHxD): 40x60x14 mm.

DPD code 61800050

Double pushbutton complete with support and external protective cover, transparent UV-resistant polycarbonate

Name window.
Dimensions (WxHxD): 20x60x14 mm.

DTS code 61800060

Single cover in PC/ABS thermoplastic, colour Greyhound Grey

For use with audio entry panels (DC/01, DC/08), video entry panels (DVC/01, DVC/08) and supplementary pushbutton panels (DP0).
Dimensions (WxHxD): 20x60x12 mm.

DTS ME code 61800070

Single cover in plastic with brushed chrome finish, colour Metal

For use with audio entry panels (DC/01 ME, DC/08 ME), video entry panels (DVC/01 ME, DVC/08 ME) and supplementary pushbutton panels (DP0).
Dimensions (WxHxD): 20x60x12 mm.

DTH code 61800080

Double-height cover in PC/ABS thermoplastic, colour Greyhound Grey

For use with audio entry panels (DC/01, DC/08), video entry panels (DVC/01, DVC/08) and supplementary pushbutton panels (DP0).
Dimensions (WxHxD): 40x60x12 mm.

DTH ME code 61800090

Double-height cover in plastic with brushed chrome finish, colour Metal

For use with audio entry panels (DC/01 ME, DC/08 ME), video entry panels (DVC/01 ME, DVC/08 ME) and supplementary pushbutton panels (DP0).
Dimensions (WxHxD): 40x60x12 mm.

DMI code 61800440

Thangram information form

Dimensions: 53x33x0,3 mm

ACCESSORIES FOR COMPOSITION OF ENTRY PANELS WITH DIGITAL CALL AND/OR ACCESS CONTROL

DRFID code 61800290

Proximity key reader complete with antenna and decoding circuit, polycarbonate

Suitable for use with any audio entry panel and video entry panel in the Thangram range (**cannot be used with DP0 pushbutton panel**).

Dimensions: (WxHxD): 40x60x12 mm.

DNA code 61800320

Keypad in grey PC/ABS thermoplastic with number keys (0 - 9) and two function keys for sending coded call and confirmation of access code

Suitable for use with any audio entry panel and video entry panel in the Thangram range (**cannot be used with DP0 pushbutton panel**).

Dimensions: (WxHxD): 60x60x14 mm.

DNA ME code 61800360

Keypad in plastic in satin-finish chrome with number keys (0 - 9) and two function keys for sending coded call and confirmation of access code

Suitable for use with any audio entry panel and video entry panel in the Thangram range (**cannot be used with DP0 pushbutton panel**).

Dimensions: (WxHxD): 60x60x14 mm.

DTAG5 code 61800470

Proximity key – keyring version

For use with entry panels fitted with optional DRFID proximity key reader (code 61800290).
Pack with 5 pieces.
Dimensions (WxHxD): 53x37x10 mm.

DBAD10 code 61800460

Proximity key – badge version

For use with entry panels fitted with optional DRFID proximity key reader (code 61800290).
Pack with 10 pieces.
Dimensions (LxH): 85x54 mm.

ENTRY PANELS: TABLE OF COMPONENTS

VIDEO ENTRY SYSTEM

USERS	Greyhound: Video entry panel	ALTERNATIVE:	Metal: Video entry panel	Metal: Décor panels in a choice of finishes
	62020010 DVC/01 62020030 DVC/08		62020020 DVC/01 ME 62020040 DVC/08 ME	60090060 DPF AL 60090070 DPF NF 60090530 DPF ME
1	1		1	1
2	1		1	1
3	1		1	1
4	1		1	1
5	1		1	1
6	1		1	1
7	1		1	1
8	1		1	1
9	1		1	1
10	1		1	1
11	1		1	1
12	1		1	1
13	1		1	1
14	1		1	1
15	1		1	1
16	1		1	1
17	1		1	1
18	1		1	1
19	1		1	1
20	1		1	1
21	1		1	1
22	1		1	1
23	1		1	1
24	1		1	1
25	1		1	1
26	1		1	1
27	1		1	1
28	1		1	1
29	1		1	1
30	1		1	1

+

Entry panels with single pushbuttons

Supplementary pushbuttons	Décor panels in a choice of finishes	Push-buttons	Masking plates
60090080 DP/0	60090060 DPF AL 60090070 DPF NF 60090530 DPF ME	61800030 DPS	61800060 DTS 61800070 DTS ME
-	-	1	3
-	-	2	2
-	-	3	1
-	-	4	0
1	1	5	9
1	1	6	8
1	1	7	7
1	1	8	6
1	1	9	5
1	1	10	4
1	1	11	3
1	1	12	2
1	1	13	1
1	1	14	0
2	2	15	9
2	2	16	8
2	2	17	7
2	2	18	6
2	2	19	5
2	2	20	4
2	2	21	3
2	2	22	2
2	2	23	1
2	2	24	0
3	3	25	9
3	3	26	8
3	3	27	7
3	3	28	6
3	3	29	5
3	3	30	4

FOR AUDIO SYSTEMS

Entry panel	ALTERNATIVE:	Entry panel
60090010 DC/01		60090020 DC/01 ME
60090030 DC/08		60090040 DC/08 ME

FOR RECESSED INSTALLATION:

for each entry panel and each supplementary pushbutton panel, add:

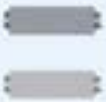
Embedding box	Décor panel Greyhound	ALTERNATIVE:	Décor panel Metal
60090050 DSI	61800010 DCI		61800020 DCI ME

ADDITIONAL PUSHBUTTONS

ALTERNATIVE:

Entry panels with double-height pushbuttons			
Additional pushbuttons	Décor panels in a choice of finishes	Pushbuttons	Masking plates
60090080 **DP/0**	60090060 **DPF AL** 60090070 **DPF NF** 60090530 **DPF ME**	61800040 **DPH**	61800080 **DTH** 61800090 **DTH ME**
-	-	1	1
-	-	2	0
1	1	3	4
1	1	4	3
1	1	5	2
1	1	6	1
1	1	7	0
2	2	8	4
2	2	9	3
2	2	10	2
2	2	11	1
2	2	12	0
3	3	13	4
3	3	14	3
3	3	15	2
3	3	16	1
3	3	17	0
4	4	18	4
4	4	19	3
4	4	20	2
4	4	21	1
4	4	22	0
5	5	23	4
5	5	24	3
5	5	25	2
5	5	26	1
5	5	27	0
6	6	28	4
6	6	29	3
6	6	30	2

ALTERNATIVE:

Entry panels with double pushbuttons			
Additional pushbuttons	Décor panels in a choice of finishes	Pushbuttons	Masking plates
			
60090080 **DP/0**	60090060 **DPF AL** 60090070 **DPF NF** 60090530 **DPF ME**	61800050 **DPD**	61800060 **DTS** 61800070 **DTS ME**
-	-	1	3
-	-	1	3
-	-	2	2
-	-	2	2
-	-	3	1
-	-	3	1
-	-	4	0
-	-	4	0
1	1	5	9
1	1	5	9
1	1	6	8
1	1	6	8
1	1	7	7
1	1	7	7
1	1	8	6
1	1	8	6
1	1	9	5
1	1	9	5
1	1	10	4
1	1	10	4
1	1	11	3
1	1	11	3
1	1	12	2
1	1	12	2
1	1	13	1
1	1	13	1
1	1	14	0
1	1	14	0
2	2	15	9
2	2	15	9

EXAMPLES OF COMPOSITION

AUDIO AND VIDEO MODULES

for entry panels with non-BPT front plates

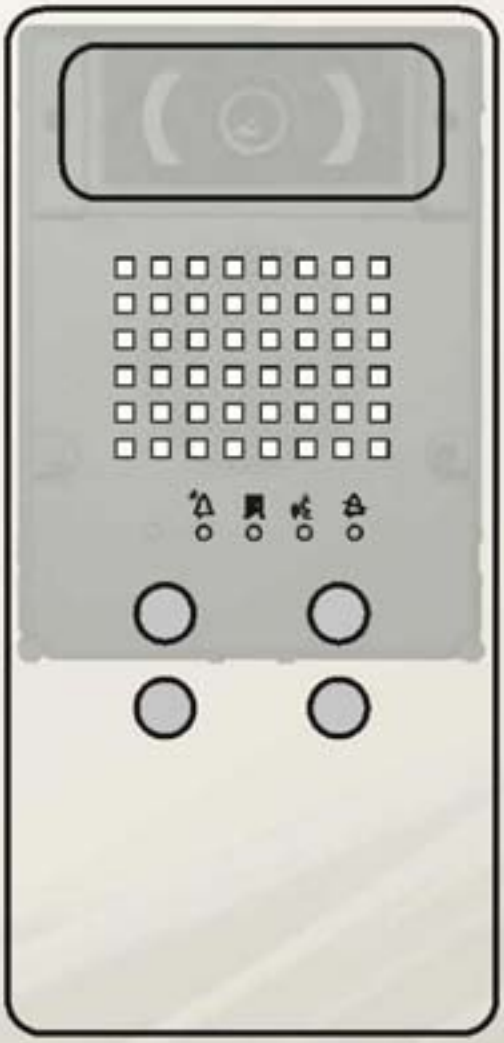
Applying many of the winning features of the Thangram series, BPT now extends its range of entry panels with the addition of audio and colour video entry modules for the X1 and XIP systems. This device is extremely flexible in terms of installation, since personalized non-BPT metal front plates can be used to select the panel that meets the exact requirements of the user.

VERSIONS

DMVC

DMC

- Colour video with excellent image quality by day or night, thanks to an optimized lighting system
- Acoustic and visual status signalling
- Connector for connection of the first four buttons (cable supplied as standard)
- Possibility of cascade connection of up to 8 VZS/308C call expansion modules
- Microphone with remote-control option
- Connector for general matrix keyboard for access control



COMPATIBLE SYSTEM

INTERNET PROTOCOL

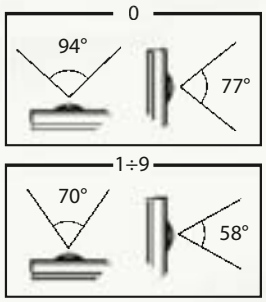
2 WIRES

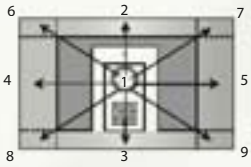
MODULE DIMENSIONS

L (mm)	H (mm)	P (mm)
95	130	35

DIGITAL ADJUSTMENT OF THE ANGLE OF APERTURE

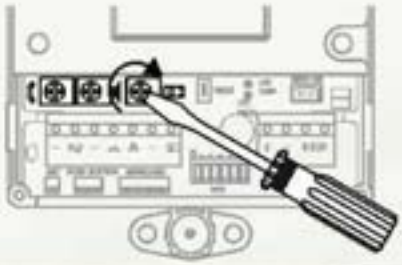
The DMVC video module with the "wide eye" feature (angle of aperture: 94° horizontal, 77° vertical) allows the camera to capture a very wide area (for example, at a distance of 50 cm from the entry panel, the field of vision is 108 cm in width and 80 cm in height). During installation of the entry panel, the angle of aperture of the camera can be reduced to 70° by digitally adjusting the zoom, and the camera can be oriented in the desired direction.





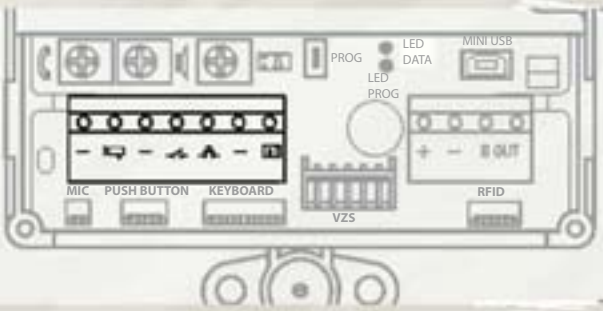
SIMPLE AND EASILY-ACCESSIBLE ADJUSTMENT

The microphone and loudspeaker audio signal and the solenoid lock can be adjusted very simply by removing the rear panel – no need to access the electronic components.



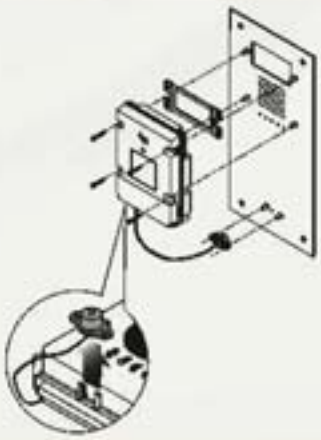
FUNCTIONS OF THE TERMINALS

As well as the solenoid lock, the terminal block can be used to connect a door-release button, a door status signalling device and a switch controlling any supplementary lighting points.



INSTALLATION

The DVMC and DMDMCC modules can be easily installed in non-BPT front plates, connecting the microphone or the camera lens (for video modules) and the call buttons and then securing the module to the front plate of the entry panel.



CODES AND ARTICLES

AUDIO AND VIDEO MODULES

DMC/01	60090660	X1 system audio entry system module	X1
DMC/08	60090670	XIP system audio entry system module	XIP
DMVC/01	62020080	X1 system audio/video entry system module	X1
DMVC/08	62020090	XIP system audio/video entry system module	XIP

DIGITHA

Digital generation

The Thangram range is completed by Digitha, a stainless steel entry panel that is particularly sturdy and highly functional. With BPT's focus on making the best possible use of internal and external space, as well as the numerous features made possible by the digital pushbutton panel, Digitha offers unparalleled performance and ultra-compact design, and the sophisticated XIP digital control system is the ideal solution for residential systems.
Attractive and elegant, Digitha is pleasing to the senses, with a dual finish – brushed and matt – that will delight both the eye and the touch.
Digitha: the new generation of entry panels.

COMPATIBLE SYSTEM

INTERNET PROTOCOL

PLUS

ELEGANCE AND DISCRETION

Robust construction and a complete range of functions, without sacrificing attractive styling. With its dual brushed/matt finish and compact size, Digitha will blend perfectly into any architectural setting.

SUPERB VIDEO QUALITY, DAY AND NIGHT

The entry panels in the Digitha range feature cutting-edge technology in the form of sensors using sophisticated digital image processing algorithms to give superlative video quality in any environmental conditions. In addition, the sophisticated light guide system, developed jointly with the Plast Optica Research Centre (a division of FIAT's research centre), guarantees perfect night vision.

VANDAL-RESISTANT

Digitha is a blend of stylish design and extra-robust construction thanks to a dual-finish front panel in tough stainless steel.
Available for wall-mounting or recessed installation, Digitha combines security, elegance and ease of installation with a full range of functions.

FOR THE DISABLED AND THE ELDERLY

Digitha entry panels comply with all legislative requirements concerning utilization by the disabled and the elderly. The wide angle of vision and digital zoom control make it possible to install Digitha at a height easily accessible to the disabled. The audio signal is processed to assure enhanced performance even in the noisiest areas, and the central button features a raised mark so that the buttons on the keypad can be readily identified by the sight-impaired. The version with a Braille keypad, illuminated LEDs indicating the status of the system and large icons on the display panel, as well as the possibility of voice messaging, ensure that all the functions of Digitha can be used by persons with hearing and visual impediments.

	Call sent	Call in progress	Door open	System busy
LEDs	YES	YES	YES	YES
Symbols	YES	YES	YES	YES
Voice messages	YES	YES	YES	YES

TECHNICAL CHARACTERISTICS - EXTERNAL

Recessed

Wall mount

DIMENSIONS

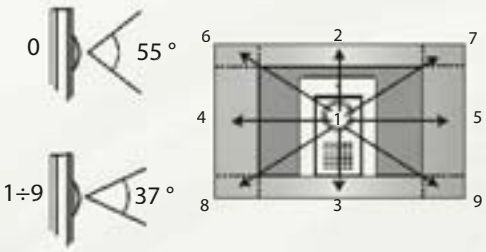
	W (mm)	H (mm)	D (mm)
Wall mount	145	383	42
Recessed	140	380	2

PERFECT COLOUR IN ANY CONDITION

The sophisticated light guide system, developed jointly with the Plast Optica Research Centre (a division of FIAT's research centre), guarantees perfect night-time illumination. The latest digital sensors, together with sophisticated image-processing algorithms, guarantee superlative video quality in any ambient conditions.

DIGITAL ADJUSTMENT OF ANGLE OF APERTURE

Thangram features the "wide eye" system (angle of lens aperture: 55°), which gives an extra-wide field of vision (for example, from a distance of 50 cm from the entry panel, the camera can capture an image 86 cm in width and 57 cm in height). At the moment of installation of the entry panel, the angle of aperture can be reduced to as little as 37° by digitally adjusting the zoom, and the camera can be oriented in the desired direction.



SIMPLE TO USE

The amply-dimensioned white backlit screen (128x128 pixels) is easy to read. Each command is explained directly on the display, clearly and simply.

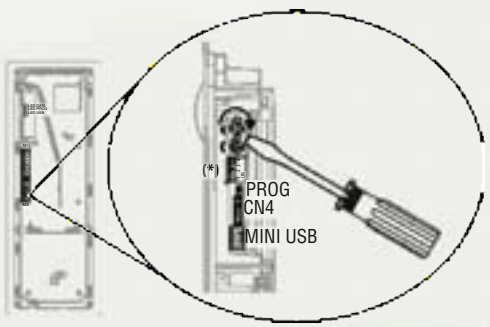
All the function and alphanumeric keys can be selected by the lightest fingertip touch, and the absence of mechanical parts ensures robust construction, excellent reliability and long service life.

SECURITY ABOVE ALL

The proximity key reader built into the Digitha entry panel is a supplementary hi-tech tool which guarantees total security.

ADJUSTMENTS

The volume of the microphone and the loudspeaker and the actioning time for the door lock release can be adjusted simply by removing the front panel and lifting up the rubber protective covers, and without having to access any electrical parts.



COMPONENTS AND ACCESSORIES

ENTRY PANELS

Video entry panel

Audio entry panel

ACCESSORIES FOR INSTALLATION

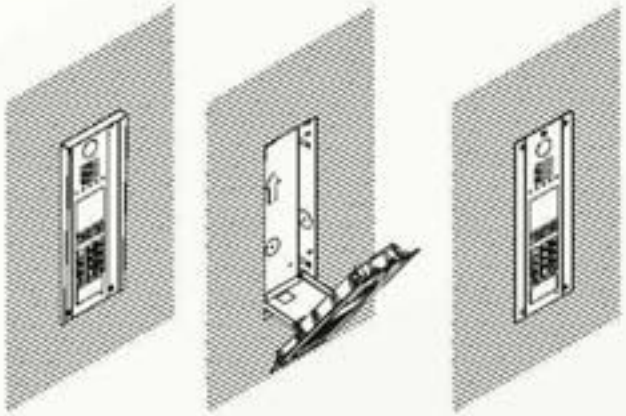
Embedding box

Frame with rain cover

Wall-mount support with rain cover

INSTALLATION

RECESSED

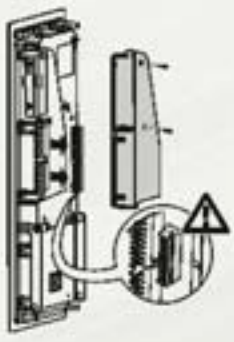


WALL-MOUNTED

Digitha can be recessed into a wall using the embedding box and frame accessories, in which case the front panel will protrude by just 2mm from the surface of the wall, or installed externally with a thickness of 42mm. This versatility means that Digitha will blend beautifully into any architectural setting.

SIMPLE, STRAIGHTFORWARD INSTALLATION AND WIRING

Digitha can be recessed into a wall, protruding by just 2mm, or installed externally (thickness 42mm).
For the recessed version, it is necessary to use the embedding box and frame with rain cover; for the externally-mounted version, the wall-mount support is already fitted with the rain cover.
A choice of installation methods means that Digitha will blend beautifully into any architectural setting.



CODES AND ARTICLES

ENTRY PANELS

DDC/08 VR code 60080010

Audio entry panel with front plate in stainless steel and dual-finish surface, circuit board for XIP system, RFID reader.

LCD graphic display, 128x128 pixels, with white backlit screen, 4 function keys for navigating user commands and lists, alphanumeric keypad, 2 function keys for sending coded calls and access code confirmation, built-in proximity key reader. "Quick Start" programming of all parameters using on-screen guided menus. Mini USB connector for programming using the software tool. DIP-switches for adjustment of the line impedance. Local command for door lock, inputs for door lock release button, door status signalling devices, output connector for activation of external cameras. Blue LEDs (8) for backlighting of keys with name label. LEDs for visual control of the status of the system: red "call connected" LED, green "door open" LED, yellow "call in progress" LED, blue "system busy" LED.
Protection rating IP 54.
Dimensions (WxHxD): 140x380x2 mm.

DDVC/08 VR code 62080010

Colour video entry panel with front plate in stainless steel and dual-finish surface, circuit board for XIP system, RFID reader.

NSTC/PAL camera, resolution 680x512 with built-in microprocessor for digital signal processing, horizontal angle of aperture 82° with digitally-controlled zoom. Caller illumination using 4 high-efficiency LEDs.
LCD graphic display, 128x128 pixels, with white backlit screen, 4 function keys for navigating user commands and lists, alphanumeric keypad, 2 function keys for sending coded calls and access code confirmation, built-in proximity key reader. "Quick Start" programming of all parameters using on-screen guided menus. Mini USB connector for programming using the software tool. DIP-switches for adjustment of the line impedance. Local command for door lock, inputs for door lock release button, door status signalling devices, output connector for activation of external cameras. Blue LEDs (8) for backlighting of keys with name label. LEDs for visual control of the status of the system: red "call connected" LED, green "door open" LED, yellow "call in progress" LED, blue "system busy" LED.
Protection rating IP 54.
Dimensions (WxHxD): 140x380x2 mm.

ACCESSORIES FOR INSTALLATION

DDSI VR code 60090540

Embedding box for Digitha entry panels in brushed stainless steel

With self-locking couplings and pre-formed push-out apertures for wiring conduits.
Dimensions (WxHxD): 127x367x45 mm.

DDCI VR code 61800380

Frame with rain cover for Digitha entry panels in brushed stainless steel

Dimensions (WxHxD): 145x383x20 mm.

DDSP VR code 60090550

Wall-mount box for Digitha entry panels in brushed stainless steel

With cable conduits, wall plugs and screws.
Dimensions (WxHxD): 145x383x42 (body), x64 (frame) mm.

X1 SYSTEM

X1:
EXPANDABLE TWO-WIRE VIDEO ENTRY SYSTEM

From a single home to a condominium. The X1 system can be expanded to meet any requirement – number of receivers, distances between the various parts of the system and control of the entry panels. The X1 system can be supplemented by installing auxiliary cameras, remote actuators and many other features. This is the most complete system available in terms of flexibility and control of all the parameters for the operation of the system, from the duration of the call tone to the customization of the auxiliary services for each individual receiver.

100 CALLS

2 NON-POLARIZED WIRES

PROGRAMMING VIA SOFTWARE

SELF-LEARNING

INTEGRATION WITH CCTV AND ACCESS CONTROL SYSTEM

INTERCOM BETWEEN UP TO 10 RECEIVERS

FULL OPTIONALS

X1 SYSTEM.
THE ADVANTAGES OF ADVANCED TECHNOLOGY

2 NON-POLARIZED WIRES: UNBEATABLE PERFORMANCE, LONG-DISTANCE COVERAGE, REDUCED COSTS

A single non-polarized two-wire cable can connect with XAS/301 up to 100 receivers: rapid installation and low cost.

SELF-LEARNING FUNCTION: FOOLPROOF AND VERSATILE

The system is designed for simple, rapid programming without irritating DIP-switches or other configuration devices: no possibility of errors, no extra costs.

INTERCOM FUNCTION: UP TO 10 MONITORS WITHOUT ADDITIONAL CONDUCTOR

One or more intercom receiver groups can be set up without modifying the riser.

INTEGRATION WITH CCTV AND ACCESS CONTROL

The video entry system can be transformed into an active home security system.

X1 SYSTEM: FULL-OPTIONAL

- Audio/video conversation confidentiality
- Self-connection/scanning of entry panels and video cameras
- Door lock release with variable activation time
- Doorbell on landing
- Incoming call notification
- Auxiliary functions
- System busy signal

PERFORMANCE AND TECHNICAL DATA

- **1** power supply (12 DIN) powers the entire system
- **3** colour entry panels in star configuration
- **100** receivers
- **650** metres between entry panel and last receiver with XAS/301's
- **8** CCTV cameras
- **500** different access badges
- **500** different access codes

BPT CABLES

The X1 system by BPT guarantees excellent performance and signal quality, irrespective of the transmission system used. The indications shown in the diagrams are the same for Thangram and Lithos entry panels.

VCM/2D CABLE

Cable comprising twisted-pair (wire section 0.28 mm²) + two 1 mm² wires.

PVC insulating sheath, diameter 8 mm, colour: RAL 1021 yellow. Twisted pair, 70mm twist pitch. Copper wires. Colour: white/light blue and light blue for twisted pair - red and green for power supply wires. Nominal impedance of twisted pair 100 ohm (±20%) (f = 1 MHz), capacitance 50 pF (at 20°C).
Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment), CEI 20-11 (latest amendment), CEI 20-37.
Supplied in 100m or 500m coils.

		Colour of wire	Thickness	Type of cable
VCM/2D		Green	1.00 mm²	Power supply
		Red	1.00 mm²	
		Light Blue	0.28 mm²	Bus
		White/Light Blue	0.28 mm²	

VCM/1D CABLE

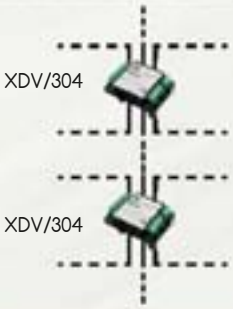
Twisted-pair cable (wire section 1 mm²)

PVC insulating sheath, diameter 7 mm, colour: RAL 1021 yellow. Twisting pitch 10 twists/m. Tinned copper wires, colour: RAL 9001 white and RAL 5015 blue. Nominal impedance 100 ohm (±15%) (f = 1 MHz), capacitance 50 pF (at 20°C).
Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment).
Supplied in 100m or 500m coils.

		Colour of wire	Thickness	Type of cable
VCM/1D		Blue	1.00 mm²	Bus/Power supply
		White	1.00 mm²	

RECOMMENDED WIRES FOR EACH TYPE OF CONNECTION

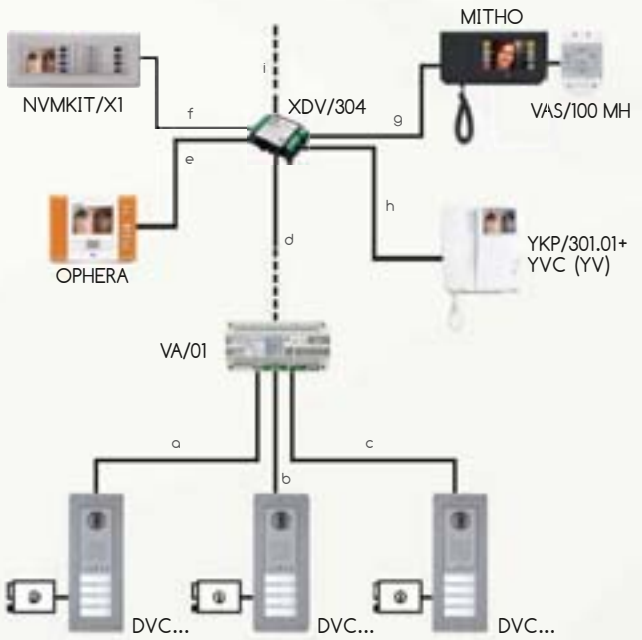
TYPE OF CONNECTION		RECOMMENDED WIRE
Connection between entry panels and power supply modules		VCM/2D

TYPE OF CONNECTION		RECOMMENDED WIRE
Distribution on riser		**VCM/2D** for X1 systems with separate power supply for the receivers
		VCM/1D for X1 systems with receiver power via bus

DISTANCES

The X1 system by BPT guarantees excellent performance and signal quality, irrespective of the transmission system used. The indications shown in the diagrams are the same for Thangram and Lithos entry panels.

STANDARD SYSTEM

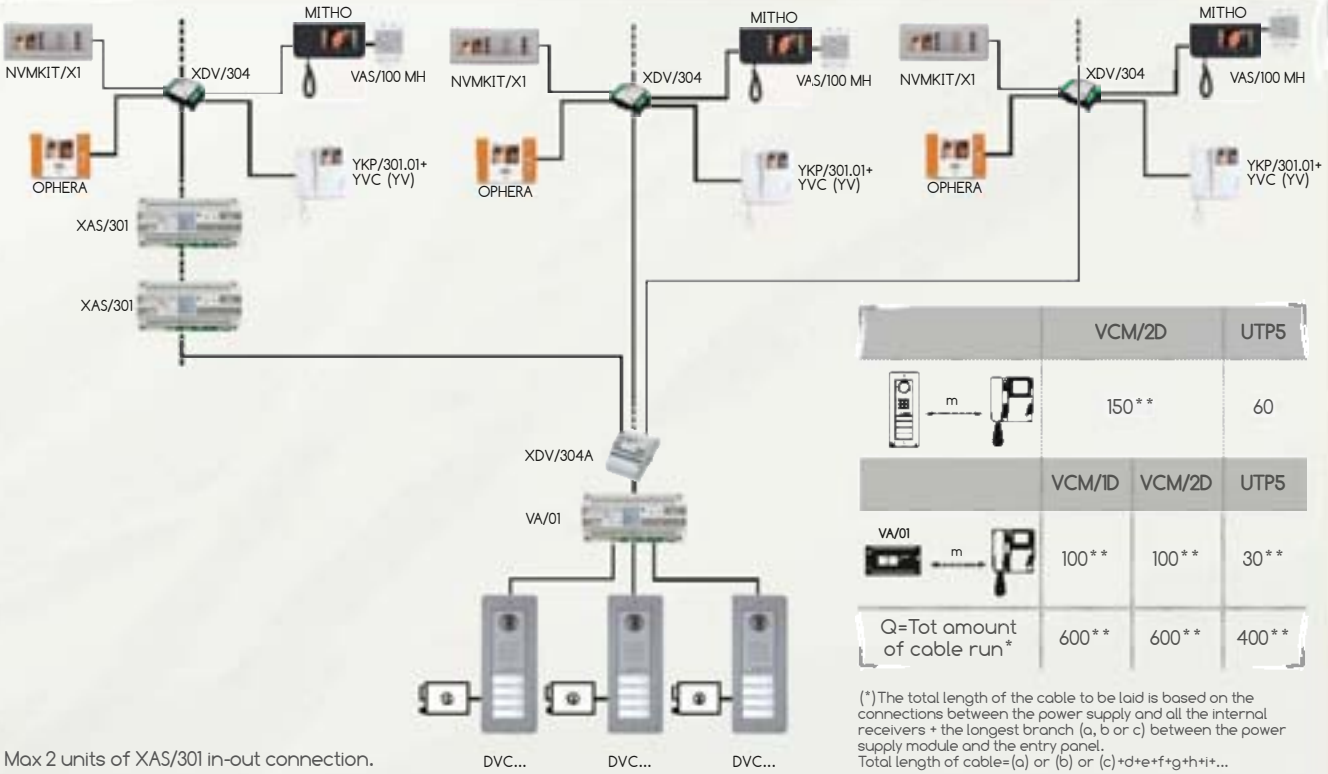


	VCM/2D	UTP5
m	150	60

	VCM/1D	VCM/2D	UTP5
VA/01 m	100	100	30
Q=Tot amount of cable run*	600	600	400

(*) The total length of the cable to be laid is based on the connections between the power supply and all the internal receivers + the longest branch (a, b or c) between the power supply module and the entry panel.
Total length of cable=(a) or (b) or (c)+d+e+f+g+h+i+...

SYSTEM WITH LINE AMPLIFIER



	VCM/2D	UTP5
m	150**	60

	VCM/1D	VCM/2D	UTP5
VA/01 m	100**	100**	30**
Q=Tot amount of cable run*	600**	600**	400**

(*) The total length of the cable to be laid is based on the connections between the power supply and all the internal receivers + the longest branch (a, b or c) between the power supply module and the entry panel.
Total length of cable=(a) or (b) or (c)+d+e+f+g+h+i+...

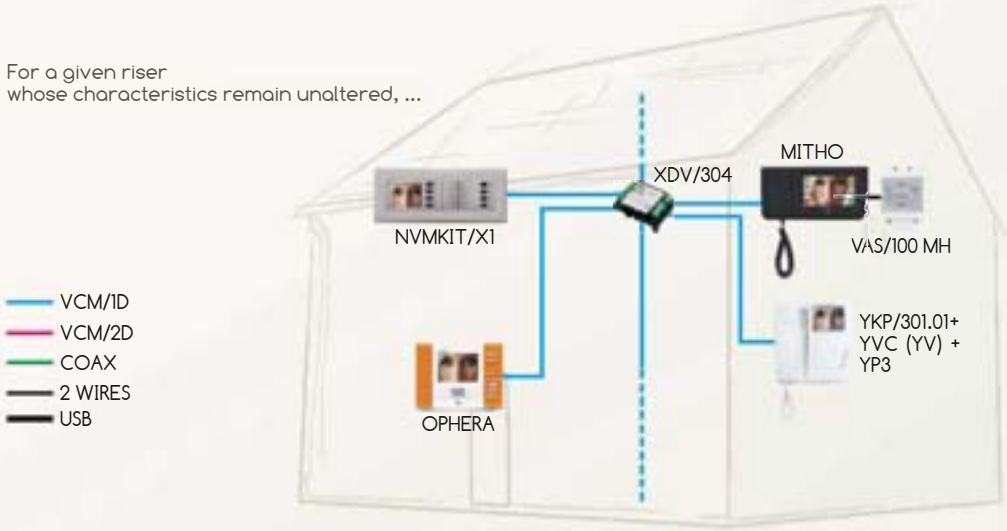
Max 2 units of XAS/301 in-out connection.

(**) The maximum distance between the entry panel and the receiver and between the VA/01 power supply module and the receiver is increased by 250 metres for each supplementary XAS/301 power supply module (plus 1,000 metres total cable length), on condition that no receivers are installed between the XAS/301 power supply modules or between the XAS/301 and the XDV/304A modules, or if the receivers are powered locally.

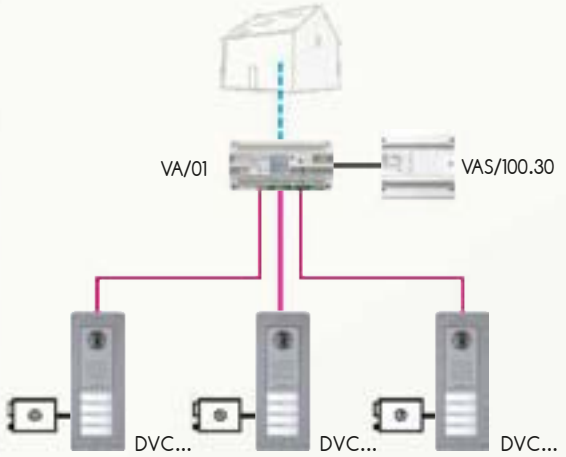
PERFORMANCE AND COMPATIBILITY

THANGRAM ENTRY PANELS AND VA/01 POWER SUPPLY

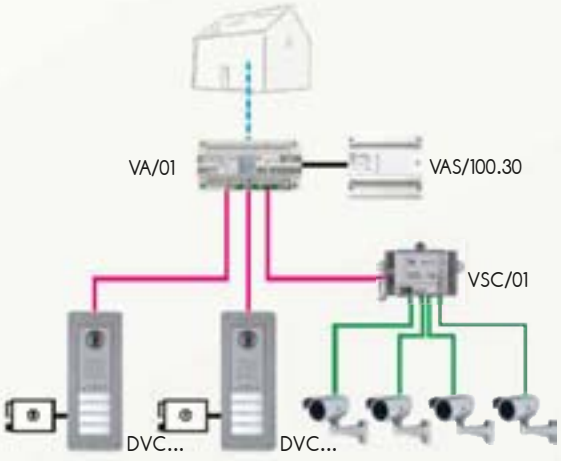
For a given riser
whose characteristics remain unaltered, ...



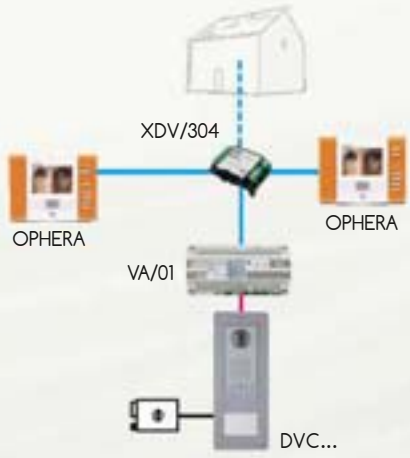
... it is possible to create systems with 3 separate entry panels connected in 'star' configuration and 108 receivers.



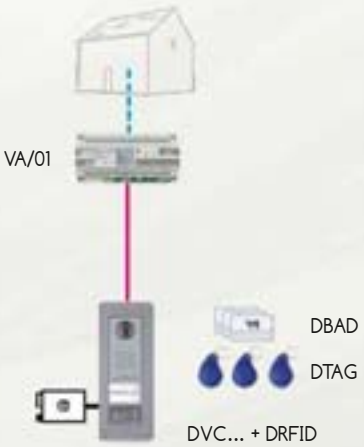
... or systems with cyclic selection of 4/8 video cameras that can be viewed from the receivers.



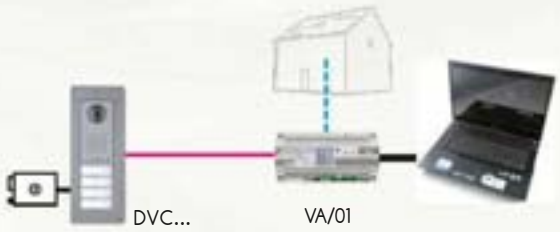
... it is possible to create an intercom system



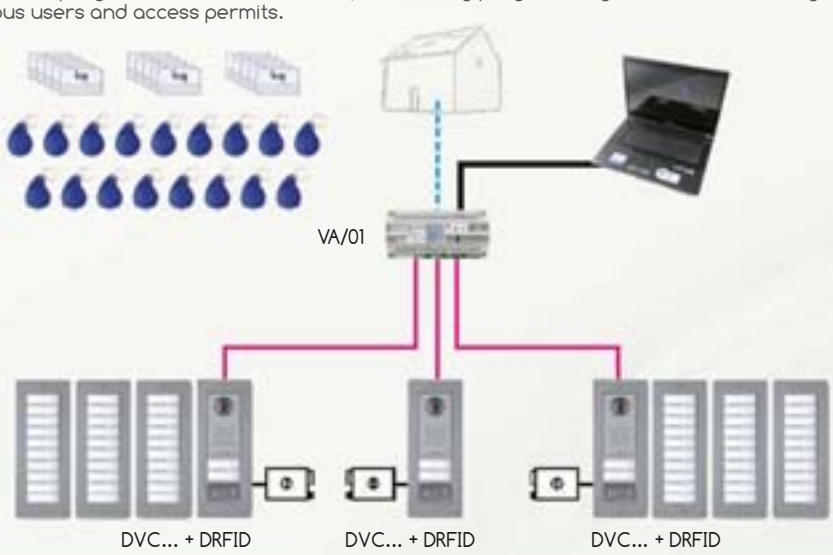
... it is possible to create an access control system with manual programming for smaller residential systems.



... using software programming via PC connected via USB to the power supply module.

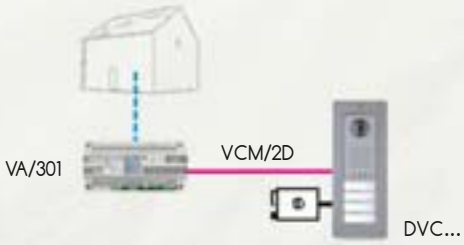


... it is also possible to create programmed access control systems using programming via software for large residential complexes with numerous users and access permits.



COMPATIBILITY OF THANGRAM ENTRY PANELS WITH EXISTING X1 SYSTEMS POWERED VIA THE BUS OR SEPARATELY

... Targha entry panels can be replaced without changing the VA/301 power supply module in single-entrance systems **ONLY**.



... Targha entry panels can be replaced without changing the VAS/100 power supply module in single-entrance systems **ONLY**.

THE NUMBER OF POWER SUPPLY MODULES REQUIRED DEPENDS ON THE NUMBER OF ENTRY PANELS AND INTERNAL RECEIVERS IN THE AUDIO OR AUDIO-VIDEO ENTRY SYSTEM.

Systems **without access control** supplied as standard with VA/01 power supply module

	NUMBER OF ENTRY PANELS		
	1	2	3
From 1 to 64 receivers	0	0	1 x VAS/100.30 o 1 x VAS/101
From 65 to 108 receivers	Add one XAS/301 to the riser and one VAS/101 for entry panel no. 1 (video entry system) or one XAS/301 only to the riser (audio entry system)		

Systems **with access control** supplied as standard with VA/01 power supply module

	NUMBER OF ENTRY PANELS		
	1	2	3
From 1 to 64 receivers	0	1 x VAS/100.30 o 1 x VAS/101	2 x VAS/100.30 o 2 x VAS/101
From 65 to 108 receivers	Add one XAS/301 to the riser and one VAS/101 for entry panel no. 1 (video entry system) or one XAS/301 only to the riser (audio entry system)		

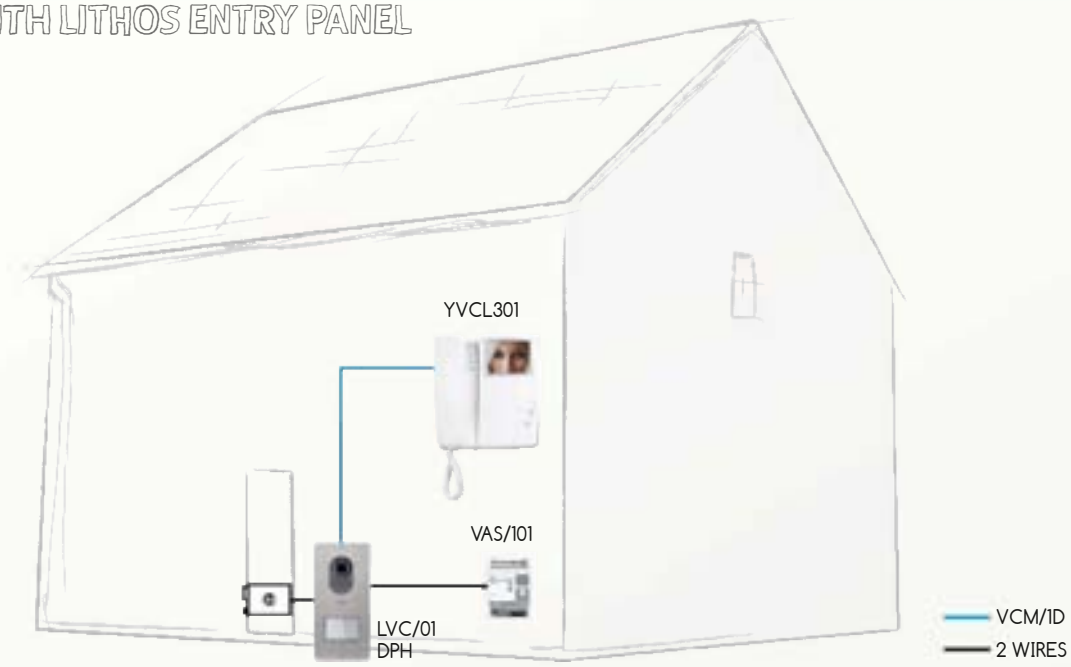
EXAMPLES OF

SINGLE HOUSE SYSTEM WITHOUT INTERCOM FUNCTION

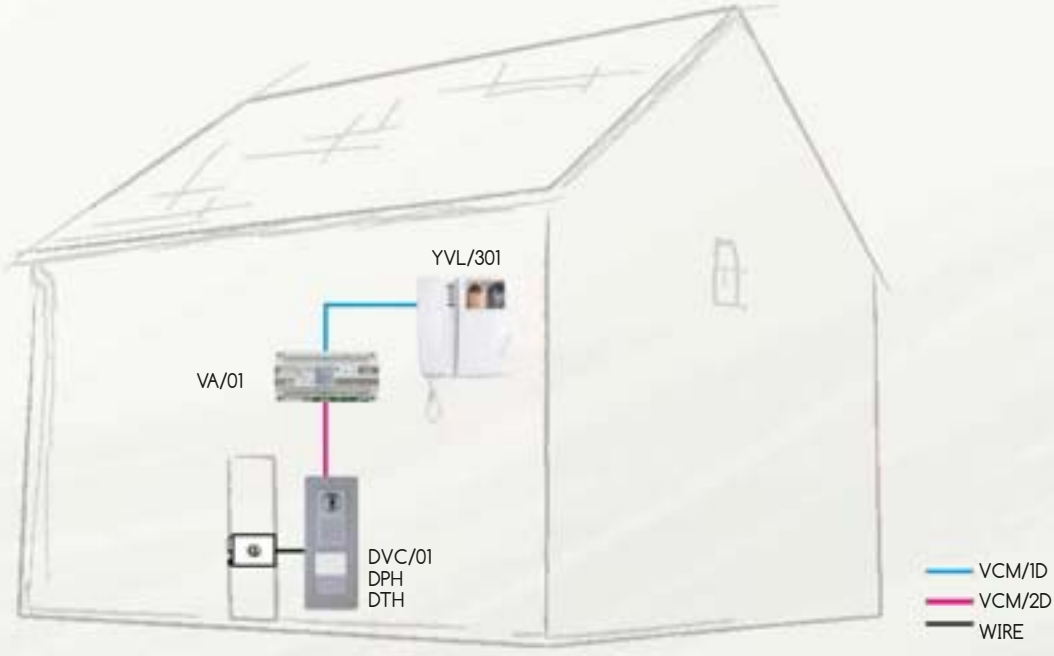
To create a single-home system without the intercom function, it is sufficient to connect the receiver directly to the power supply module VA/01 or the entry panel LVC/01. In this case, no supplementary components are required.

Single-home kits are available for both types of installation with the desired receiver and the Lithos (LVKIT - see page 139) or Thangram (EVKIT - see page 135-136) entry panels.

SYSTEM WITH LITHOS ENTRY PANEL



SYSTEM WITH THANGRAM ENTRY PANEL



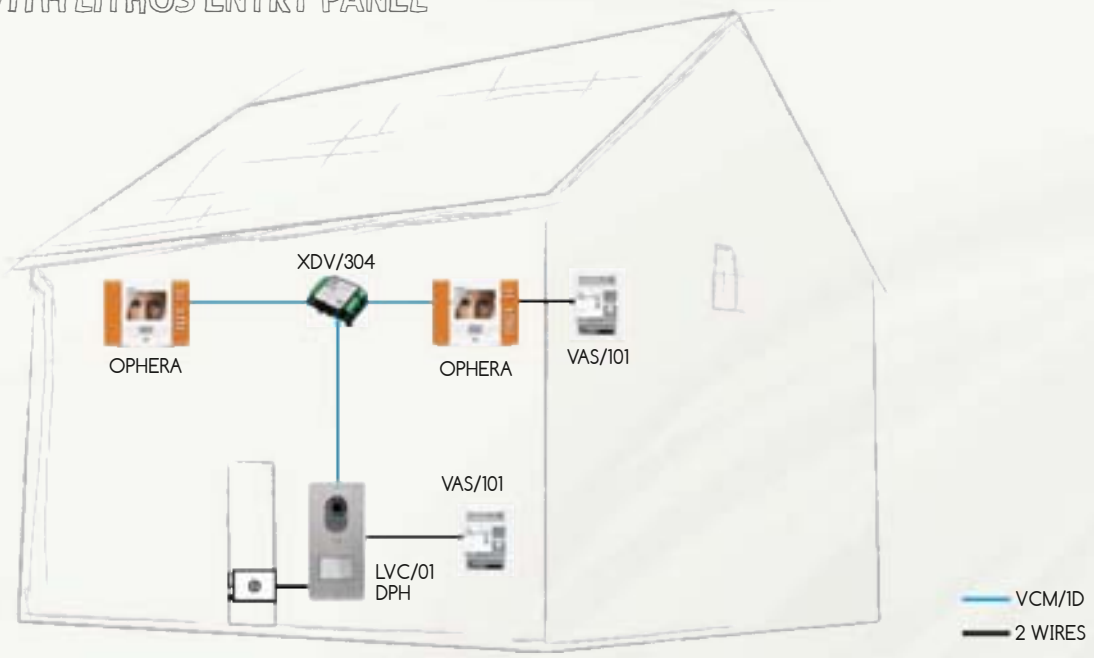
APPLICATIONS

SINGLE HOUSE SYSTEM WITH INTERCOM FUNCTION

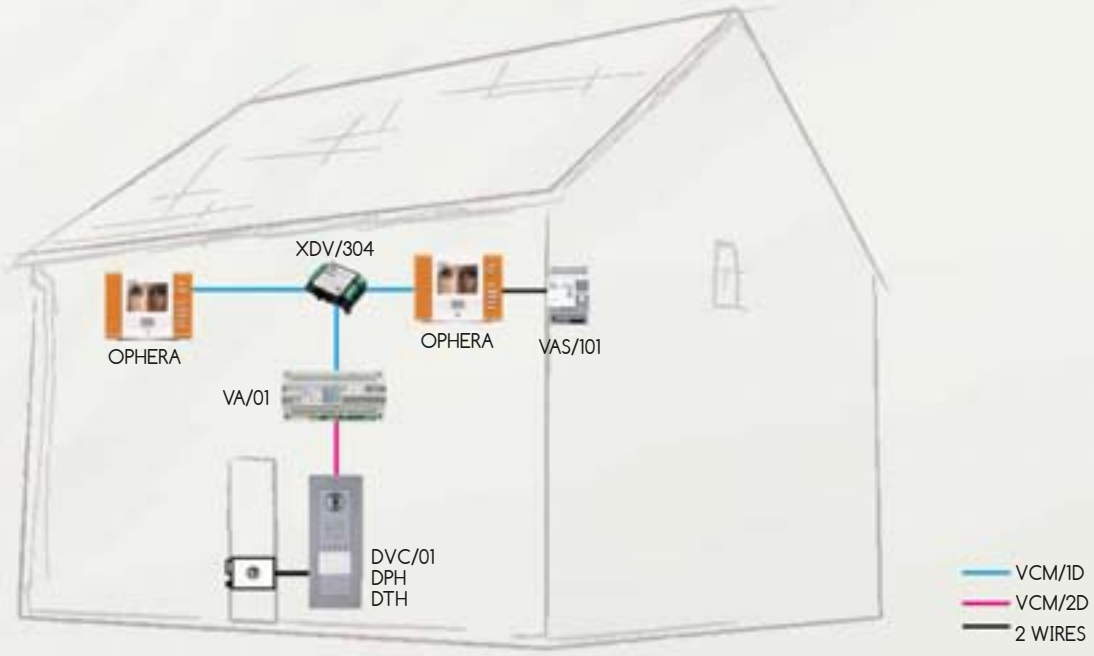
To create a single-home system with the intercomunicant function, it is sufficient to connect the receivers directly to the power supply module VA/01 or the entry panel LVC/01. In this case, no supplementary components are required. Purchased separately the second receiver.

Single-home kits are available for both types of installation with the desired receiver and the Lithos (LVKIT - see page 139) or Thangram (EVKIT - see page 135-136) entry panels.

SYSTEM WITH LITHOS ENTRY PANEL



SYSTEM WITH THANGRAM ENTRY PANEL



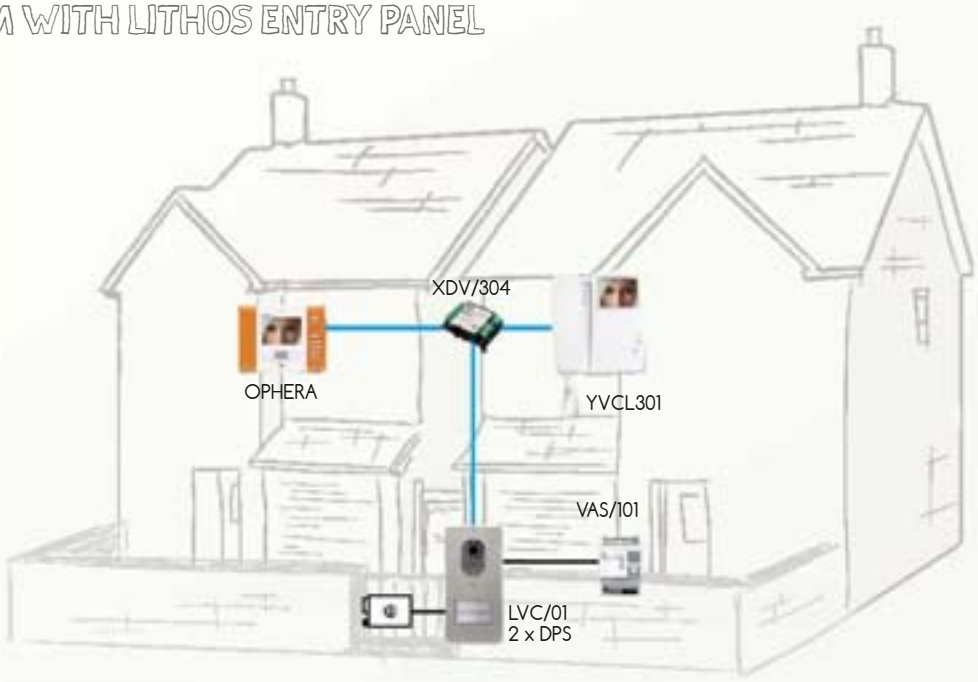
NOTE: The intercom function is a standard feature of the Mithos and Ophera receivers, and can be used with the Lynea range (except the Basic YVL/301 version) by adding the pushbutton accessories.
NOTE: The XDV/304 using permits the "star" connection of the video receivers: in case it is possible the video receivers "daisy-chain" connection (max 5).

EXAMPLES

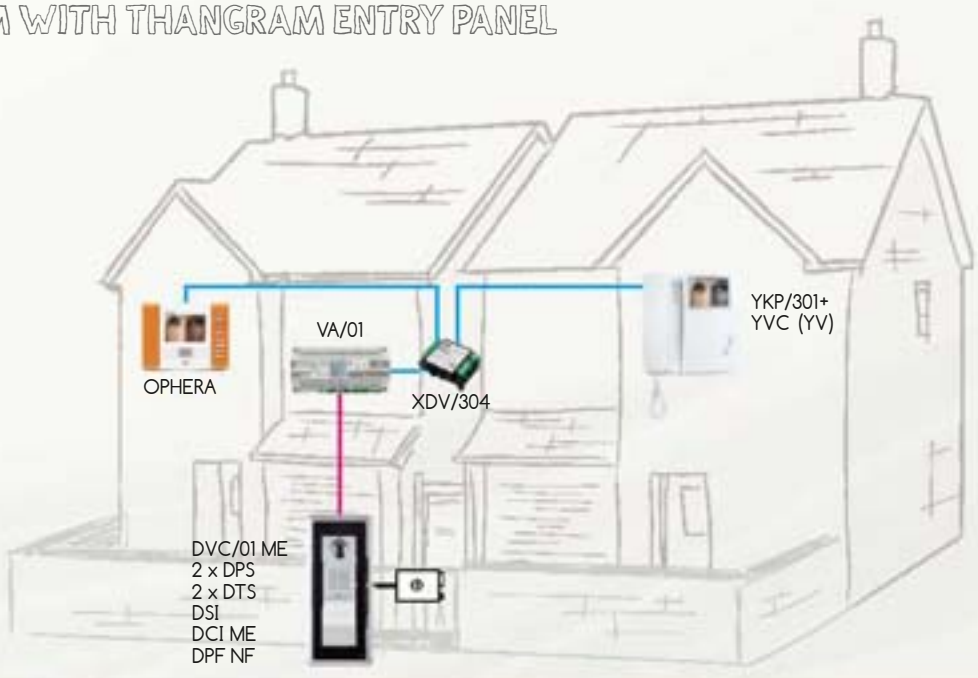
TWO-FAMILY HOUSE SYSTEM WITHOUT INTERCOM FUNCTION

For a two-family system without intercom, it is sufficient to connect the receivers directly to the power supply module VA/01or to the entry panel LVC/01. In this case, no supplementary components are required. The receiver can be powered via the bus or separately. One-family video entry system kits are available with Lithos video entry panel (LVKIT - see page 139) or Thangram video entry panel (EVKIT - see page 135-136) combined different video receivers type. Purchase separately the second receiver and the additional buttons for the entry panel.

SYSTEM WITH LITHOS ENTRY PANEL



SYSTEM WITH THANGRAM ENTRY PANEL



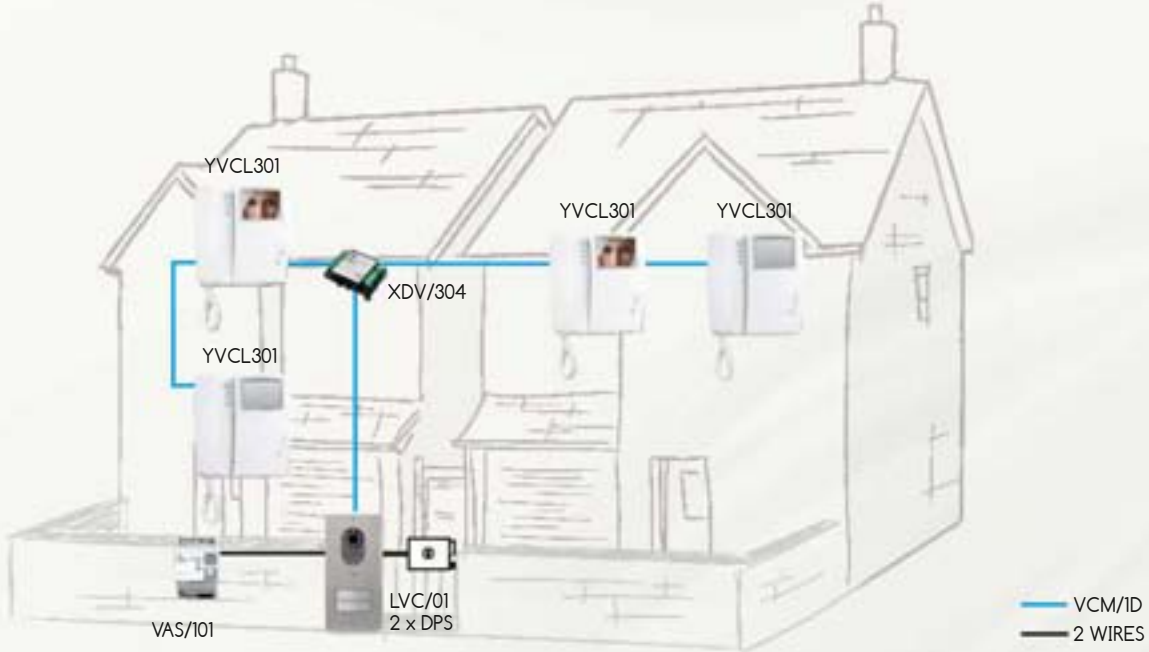
NOTE: The use of the XDV/304 video signal distributor makes it possible to wire the receivers in 'star' configuration. However, if the receivers are connected in "daisy-chain" configuration, the use of the distributor is not necessary.

OF APPLICATIONS

TWO-HOUSE SYSTEM WITH INTERCOM

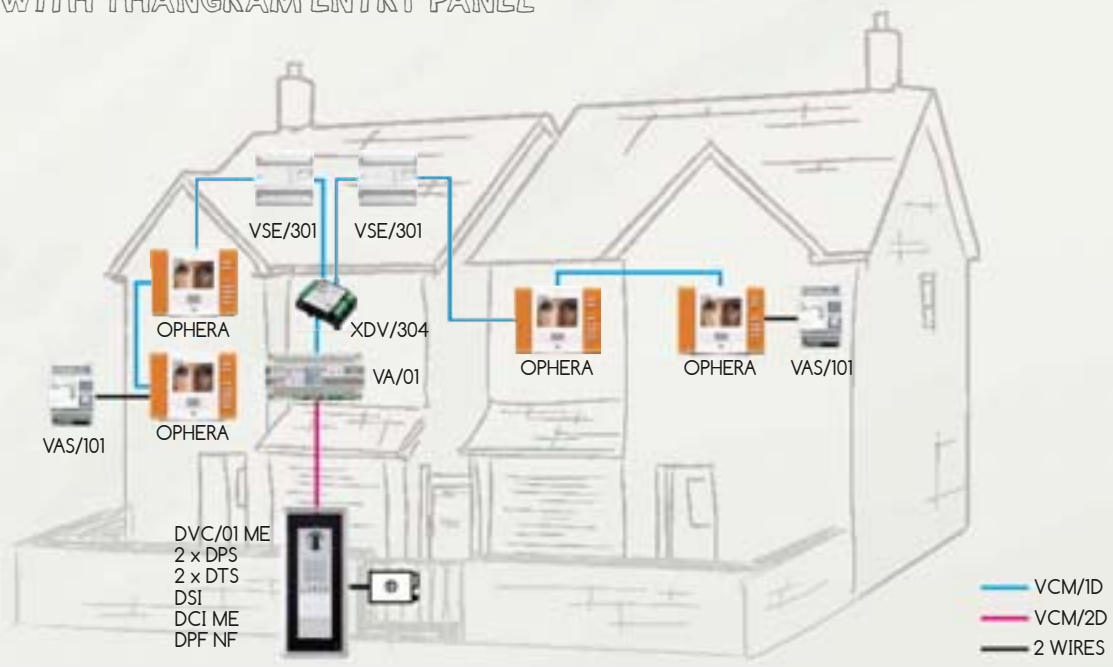
For a two-family system with 2 intercom groups, it is sufficient to add a VSE/301 selector for each apartment with Thangram system.
One-family video entry system kits are available with Lithos video entry panel (LVKIT - see page 139) or Thangram video entry panel (EVKIT - see page 135-136) combined different video receivers type.
Purchase separately the additional receiver, the additional buttons for the entry panel and the VSE/301 intercom receiver selector.

SYSTEM WITH LITHOS ENTRY PANEL AND LYNEA BASIC RECEIVER



N.B.: BPT's Lynea Basic receivers, if appropriately configured, can be used to set up two intercom call groups (as shown in the figure) without the use of VSE/301 selectors. In addition, these receivers offer the Master/Slave function: in the case of a simultaneous calls, the audio/video link to the receiver will be activated on the Master receiver only. However, the call can also be answered from the Slave receiver, to which the video call will be transferred when the handset is lifted.

SYSTEM WITH THANGRAM ENTRY PANEL

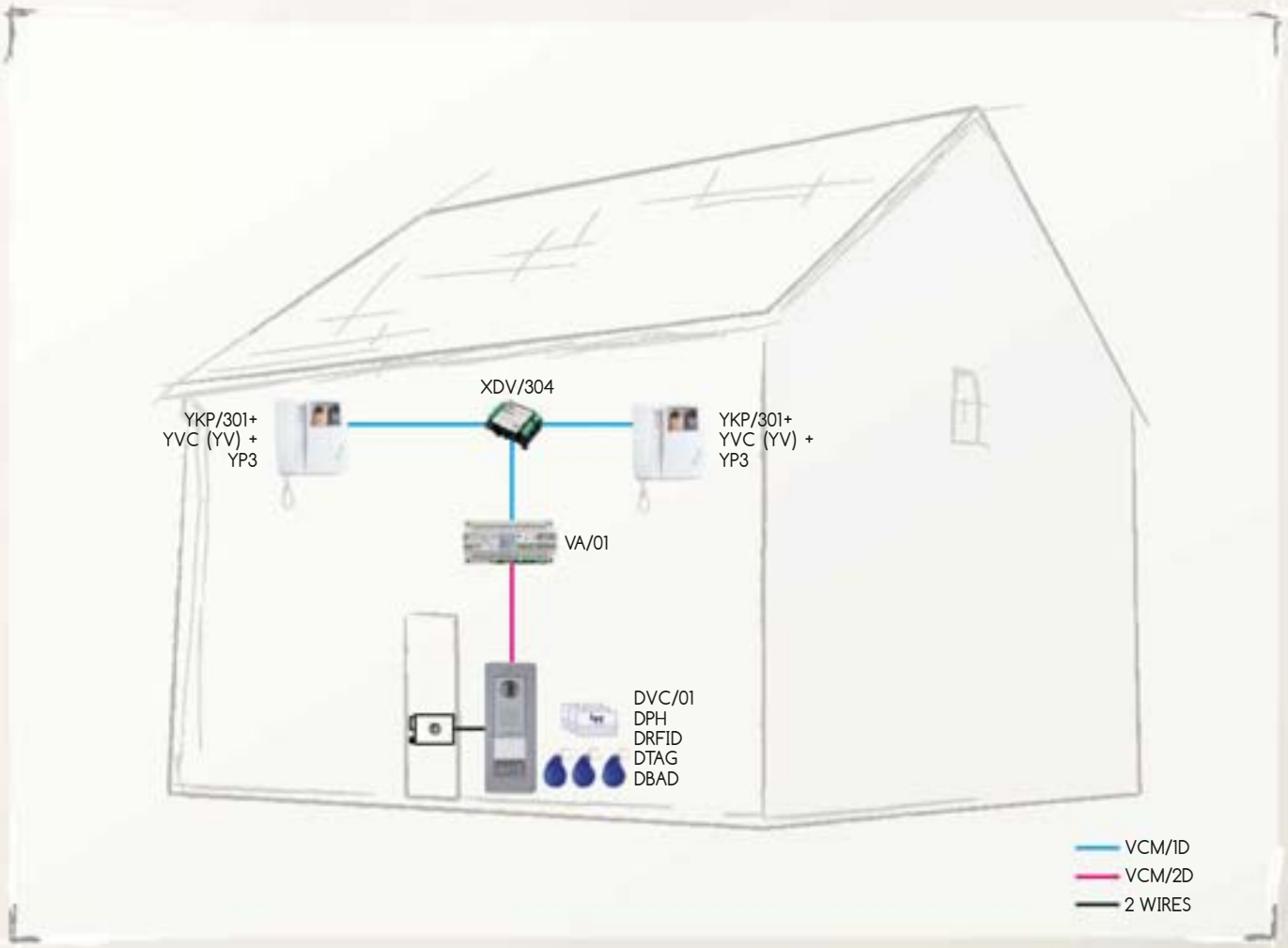


The intercom function is a standard feature of the Mithos and Ophera receivers, and can be used with the Lynea range (except the Basic YVL/301 version) by adding the pushbutton accessories.
NOTE: The receivers can be connected in "daisy-chain" or "star" configuration using XDV/304 modules for internal distribution.

EXAMPLES O

SINGLE HOUSE SYSTEM WITH INTERCOM FUNCTION AND ACCESS CONTROL

To add the access control function, it is sufficient to install an entry panel fitted with the DRFID proximity key reader or the DNA access control keypad. The proximity keys or the access codes can be programmed manually in just a few seconds. For even greater security, the electric door lock can be controlled remotely using the VLS/300 remote actuator. In this case, the door lock must be powered separately.
In either case, the electric lock can be connected directly to the entry panel.



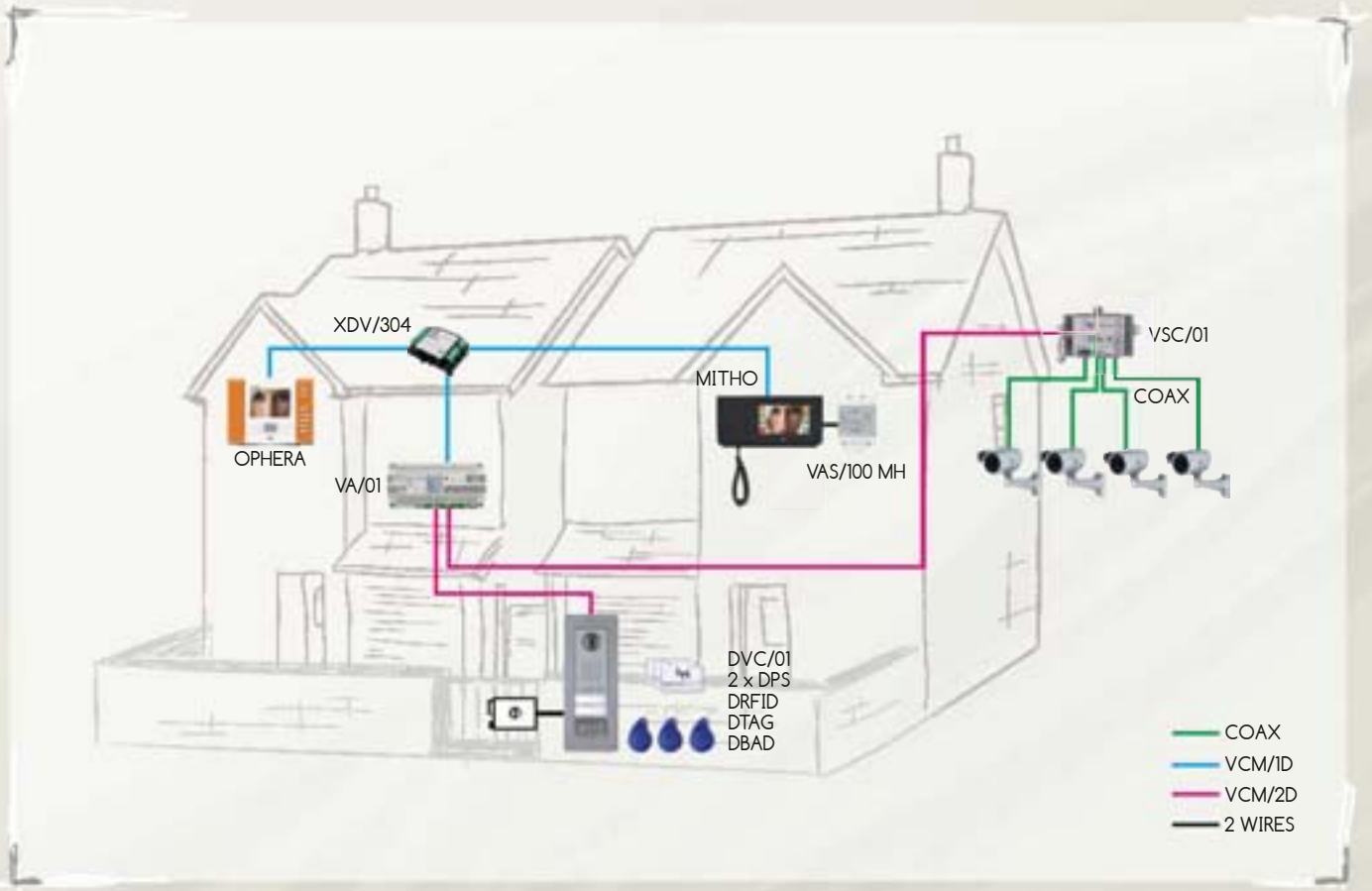
DVC/01
DPS
DNA

Alternative:
Thangram with DNA access control keypad

NOTE: The access control functions are feasible only using the VA/01 power supply on the system.
NOTE: Intercom facility included and managed on the VA/01 power supply on the system.

TWO-HOUSE SYSTEM WITH ACCESS CONTROL AND EXTERNAL VIDEO-SURVEILLANCE

To add the access control function, it is sufficient to install an entry panel fitted with the DRFID proximity key reader or the DNA access control keypad. The proximity keys or the access codes can be programmed manually in just a few seconds. To add the external video-surveillance function, it is necessary to install the cyclic selector for 4 video cameras (VSC/01) and then to connect B&W cameras (video standard CCIR/EIA) or colour cameras (video standard PAL/NTSC). The images can be displayed manually in sequence from the receivers using the "self-connection" function.



DVC/01
DPD
DNA

Alternative:
Thangram with DNA access control keypad

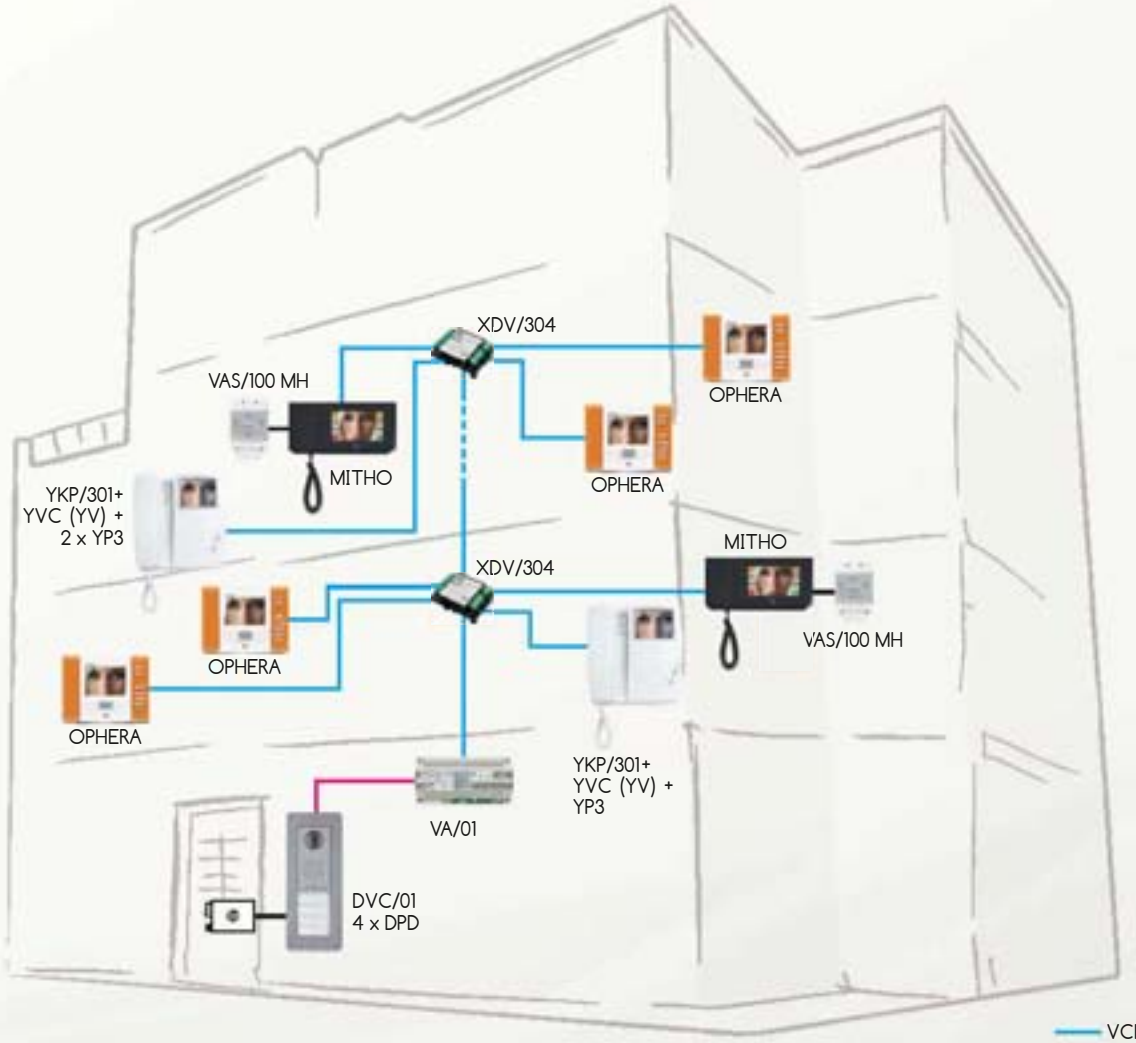
NOTE: The access control functions are feasible only using the VA/01 power supply on the system.

EXAMPLES OF

MULTI-FAMILY RESIDENTIAL BLOCK WITH SINGLE ENTRANCE WITH INTERCOM FUNCTION

To create this type of system, it is necessary to install the entry panel together with one or more additional pushbutton panels, depending on the number of users. A single entry panel with double pushbuttons can serve up to eight lines.

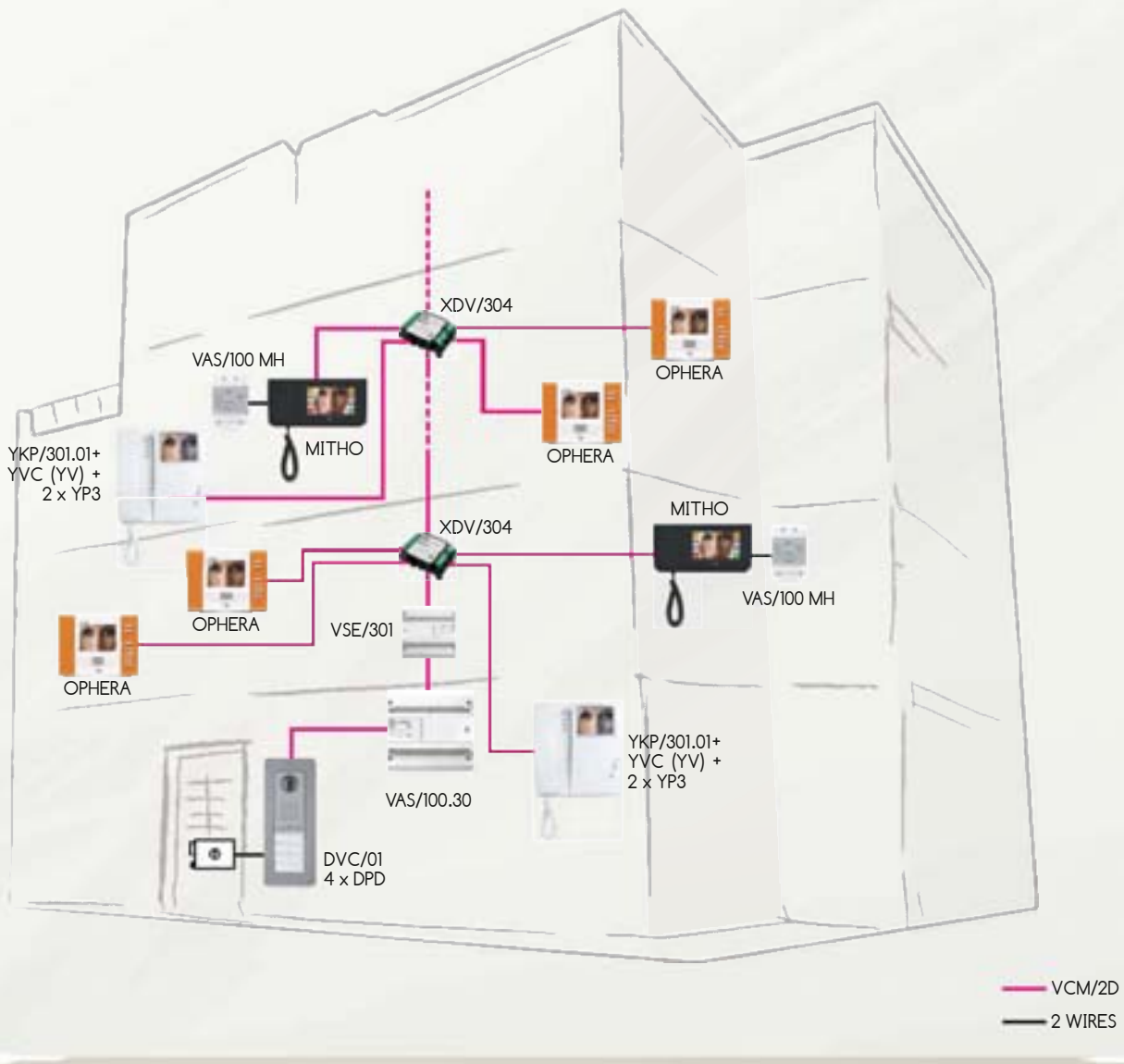
SYSTEM WITH RECEIVER POWERED VIA BUS



APPLICATIONS

The intercom function requires the installation of the VSE/301 selector downstream of the power supply module; this makes it possible to make confidential calls between all the apartments (up to a maximum of 6/10 apartments depending on the type of receiver).
For distribution of the signals along the riser, and from the riser to the various apartments, it is necessary to install XFV/304 video signal distributors. Any of the receivers in the range may be used, with the exception of the NVMKIT/.. and YVL/301 versions.

SYSTEM WITH RECEIVER POWERED SEPARATELY



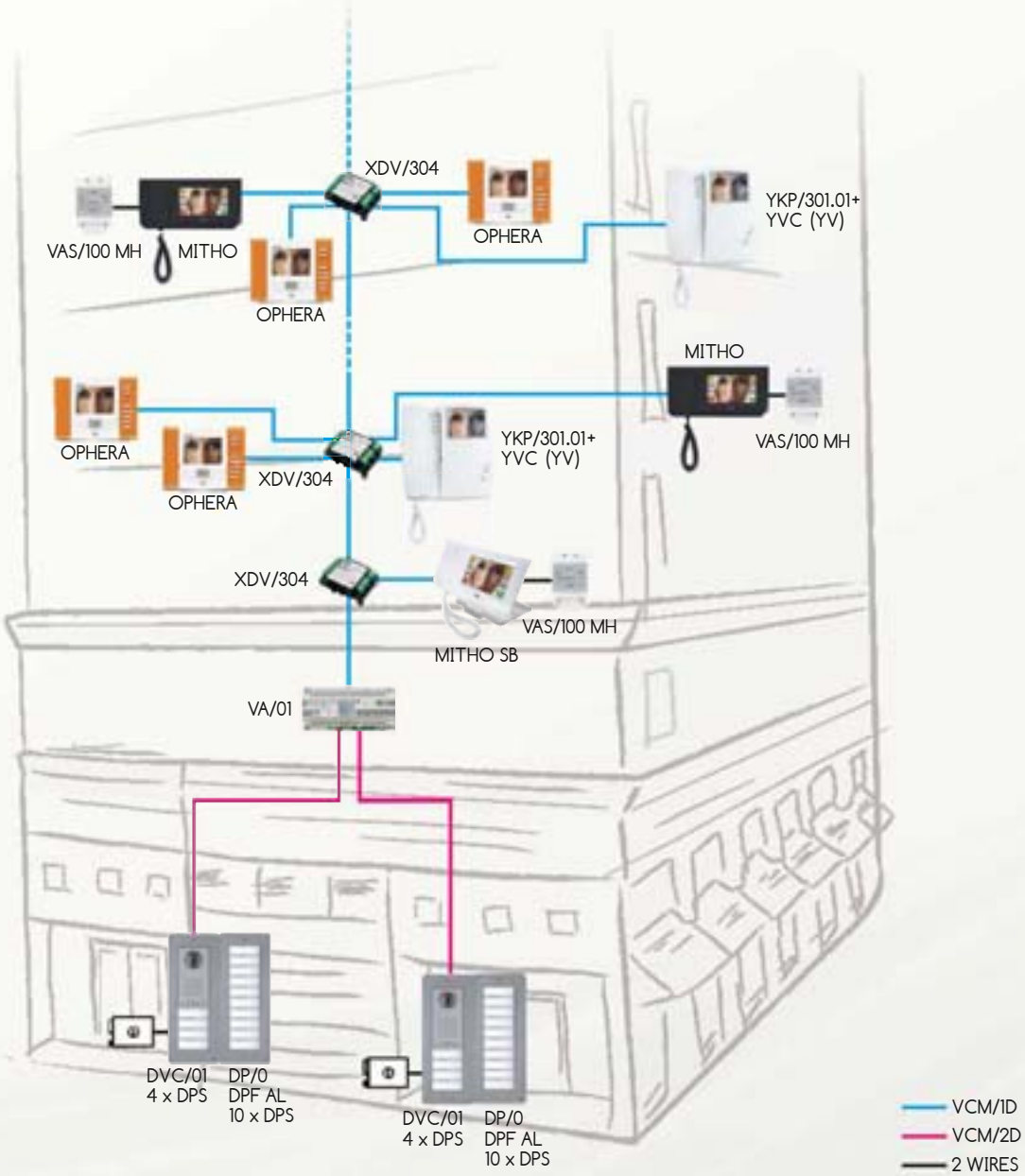
NOTE: With Lynea receivers it is possible to manage up to 6 intercom calls.

EXAMPLES

MULTI-FAMILY RESIDENTIAL BLOCK WITH MULTIPLE ENTRANCES AND PORTER SWITCHBOARD

For this type of system, it is necessary to install the entry panels (up to a maximum of three) and to fit one or more additional pushbutton panels depending on the number of lines that are required. For up to eight lines, it is sufficient to install a single video entry panel with double pushbuttons. When a call is entered, the selector built into the power module automatically activates the relative audio/video channel and the door lock actioning signal to/from the calling entry panel, while the other entry panels are set to "busy". A porter switchboard, too, can be installed and programmed at selected times of the day to intercept calls made to the receivers. The porter switchboard can also be used to call the receivers directly and to transfer calls made from the entry panels. For distribution of the signals along the riser and between the riser and the various apartments, it is necessary to utilize XDV/304 video signal distributors. Any of the receivers in our range may be selected for the apartments.

SYSTEM WITH RECEIVER POWERED VIA BUS

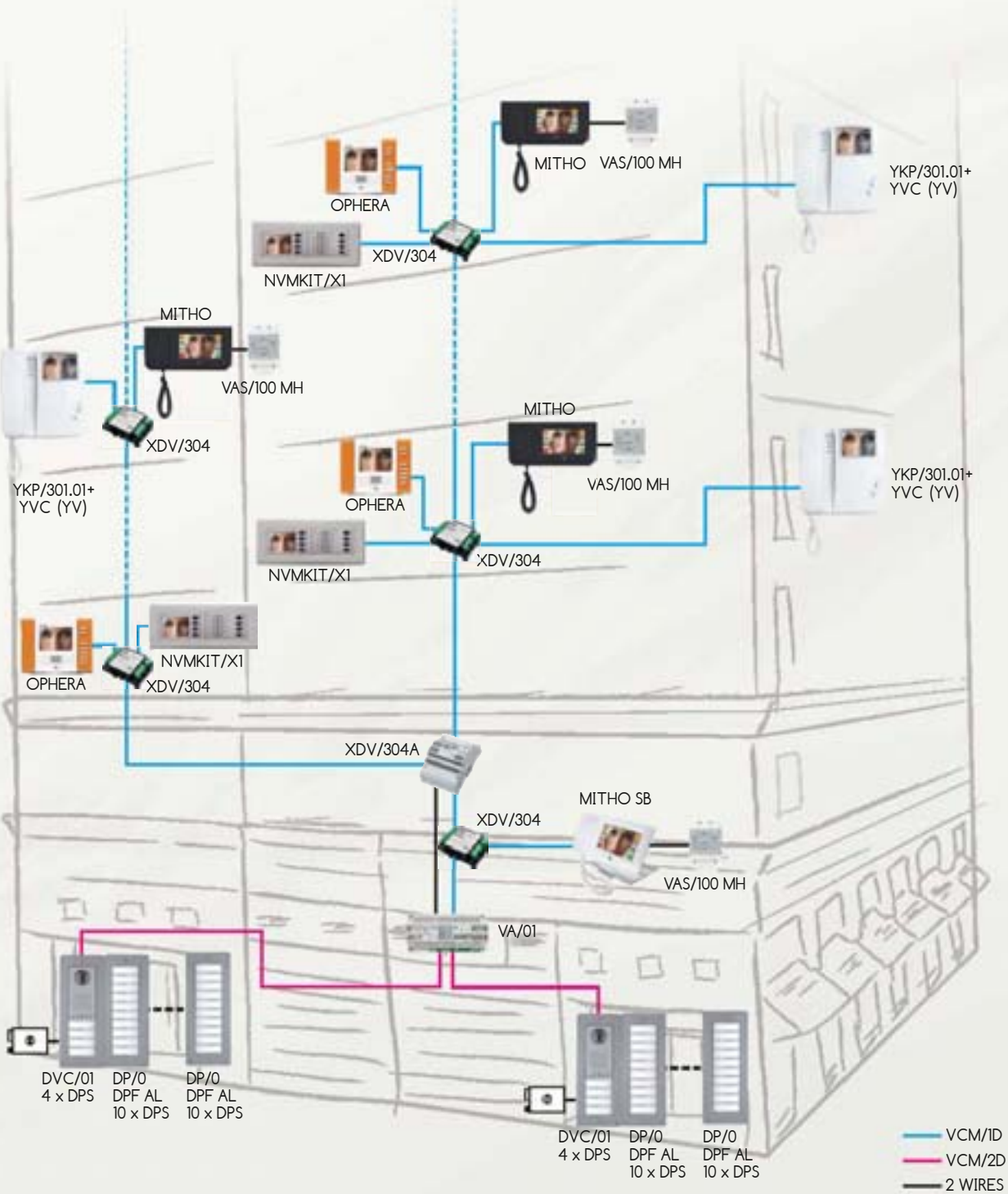


OF APPLICATIONS

MULTIPLE-ENTRANCE BLOCK WITH MULTIPLE STAIRCASES AND PORTER SWITCHBOARD

For this type of system, it is necessary to install the entry panels (up to a maximum of three) and to fit one or more additional pushbutton panels depending on the number of lines that are required. The XDV/304A amplified video signal distributor distributes the signals towards the various staircases (up to a maximum of four outputs for four risers). A porter switchboard, too, can be installed and programmed at selected times of the day to intercept calls made to the receivers. The porter switchboard can also be used to call the receivers directly and to transfer calls made from the entry panels. Along the riser between the various apartments, it is necessary to utilize XDV/304 video signal distributors. Any of the receivers in our range may be selected for the apartments

SYSTEM WITH RECEIVER POWERED VIA BUS

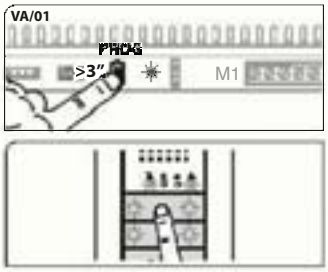


MANUAL PROGRAMMING

X1 is not simply a high-performance system that is simple to install; it is also extremely easy and quick to set up. Thanks to the self-learning function, programming can be carried out rapidly and is not prone to the errors and malfunctions that are typical of traditional systems with numerous jumpers and other configuration devices.

TYPES OF PUSHBUTTONS

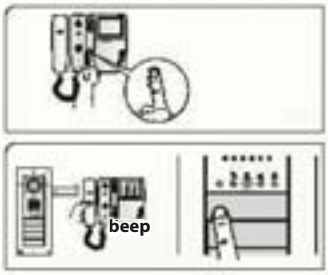
1



X1 offers great flexibility in the choice of pushbuttons (single, double, double-height) to suit the type of system. It is necessary simply to select programming mode and press the first button on the entry panel. For any other entry panels having the same configuration, no further action is necessary: they will be programmed in the same way as the first. Nothing could be easier!

MATCHING THE PUSHBUTTONS TO THE RECEIVERS

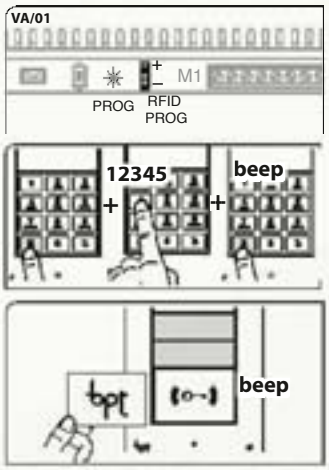
2



A call button on an entry panel can be associated with the appropriate receiver directly when the connection of the receivers is checked. To do so, simply press the door lock release button and AUX2 on the receiver to activate the audio and video line to the entry panel and press the call button on the entry panel for the receiver to be associated with it. A "beep" will sound to confirm that the link has been programmed. In case of an error, repeat the procedure.

MEMORIZING THE ACCESS BADGES OR CODES

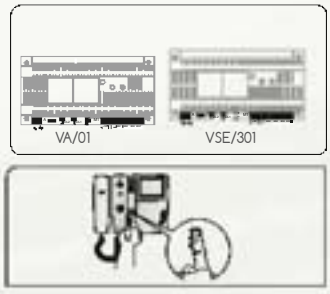
3



With X1, this operation, too, is incredibly simple.
Simply reposition the jumper on the power supply module to enter programming mode and enter the code using the keypad or position the badge so that it is 'read' by the reader.
In case of modification or misplacement of the codes, the procedure for removal or reprogramming is simple, fast and secure.

PROGRAMMING THE INTERCOM RECEIVERS

4

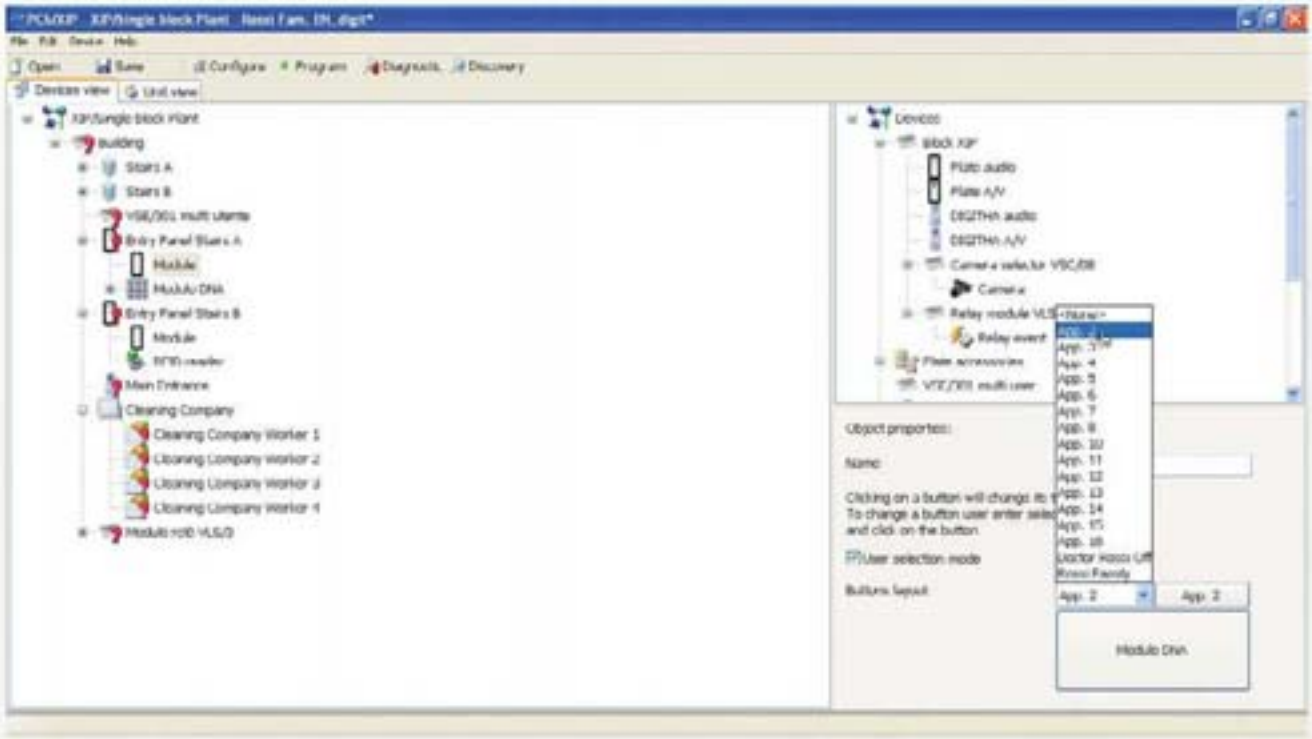


Programming of the intercom receivers is equally simple.
First, set the selector (VSE/301), or the power supply (VA/01), to 'programming' mode. Then, from the intercom receiver, press the call button for the intercom receiver to be connected and wait until three "beeps" sound to confirm the setting.

THE INTELLIGENT SYSTEM:
When programming has been completed, after 30 minutes the system returns to normal operating mode automatically without any further intervention by the installing technician.

PROGRAMMING WITH SOFTWARE FOR PC

For more complex systems, BPT has developed the PCS/XIP software for PCs. This software features an interface with intuitive graphics that makes programming quick and easy. The software can be used to read the monitor identifiers directly from the bus, to set up the pushbuttons on the entry panels (even if different models are installed) and to associate pushbuttons and receivers automatically.
By simply connecting to the power supply module or the entry panel, it is possible to modify and configure the actioning time for the door lock release, the ring tone, and the system activation time, or to test the lines for correct operation etc. – all directly from the PC.



SYSTEM COMPONENTS

POWER SUPPLY MODULES

VA/01 code 62700030

Video entry system power supply module for X1 systems.

Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 12 low-profile DIN modules. Protection rating IP30. VSE/301 integrated intercom selector. Complete circuit board for control of entry panels (18 VDC - 1.1A max) and for control of the video entry system riser (20 VDC - 0.8A max). Electronic circuit-breaker for protection against overloads/short-circuits. Terminals for control of riser bus and terminals for bus connection to 3 entry panels. Open-collector outputs for auxiliary functions (AUX1 and AUX2). RS232 serial ports (for future functions) and mini USB for programming from PC (with LED indicators for 'connection' and 'data being transferred'). Manual system programming button with indicator LED. Jumper for access to programming of access control devices (cards and keys). Powered by mains circuit 230 VAC 50/60 Hz.

VAS/101 code 62700011

Audio entry system and/or supplementary power module for X1/XIP systems.

Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 4 low-profile DIN modules. Protection rating IP30. Complete circuit board for power supply to entry panels and receivers (18 VDC - 1A max). Electronic circuit-breaker for protection against overloads/short-circuits. Terminals for control of riser bus. Fitted with terminals for connection of the device power supply modules. Powered by mains circuit 230 VAC 50/60 Hz.

VAS/100.30 code 62703310

Audio entry system and/or supplementary power module for X1/XIP systems.

Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 8 low-profile DIN modules. Protection rating IP30. Electronic circuit-breaker for protection against overloads/short-circuits. Complete with output terminals for power supply to devices (17.5 VDC - 1.7A max). Powered by mains circuit 230 VAC 50/60 Hz. If used as the only power supply module for the system, RFID and DNA modules can not be used for access control.

XAS/301 code 62704700

Power supply module/repeater for audio, video and data signals.

Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 12 low-profile DIN modules. Protection rating IP30. Complete circuit board for device control (20 VDC - 0.8 A max). Electronic circuit-breaker for protection against overloads/short-circuits. Complete with terminals for control of IN and OUT bus and 9 switch for compensation of signal according to distance. 2 LEDs for confirmation of connection and data transfer.
Potentiometers for compensation of audio volume to and from the receiver. Powered by mains circuit 230 VAC 50/60 Hz.

VIDEO SIGNAL DISTRIBUTORS

XDV/304 code 62821300

4-output video signal distributor.

Miniaturized housing for installation in junction boxes (dimensions 60x44x16 mm) or electrical control panels (EN50022), dimensions: 1 low-profile DIN module. Complete with 8 input terminals for 4 twisted pairs from the receivers and 4 terminals for IN/OUT connection from the riser. Line impedance closure jumper for each output. Passive device (power not needed).

XDV/304A code 62825800

4-output video signal distributor, amplified.

Plastic housing for installation in electrical control panels (EN50022). Dimensions 4 low-profile DIN modules. Protection rating IP30. Complete with 8 input terminals for 4 twisted pairs from the receivers and 4 terminals for IN/OUT connection from the riser. Line impedance closure jumper for each output. Requires power supply (14 - 18 VDC, 60 mA).

SELECTORS

VSE/301 code 62747400

Intercom function selector for X1/XIP systems.

Plastic housing for installation in electrical control panels (EN50022). Dimensions: 8 low-profile DIN modules. Protection rating IP30. Complete with 4 terminals for IN/OUT to the bus line, as well as two switch for access to programming and resetting of the data stored in memory. Powered by mains circuit 230 VAC 50/60 Hz.

VSC/01 code 62740060

Manual cyclic selector for CCTV for X1 systems.

Miniaturized housing for installation in junction boxes (dimensions 85.5x60x21 mm) or electrical control panels (EN50022), dimensions: 1 low-profile DIN module. Complete with 8 input terminals for video signal from 4 standard B&W or colour video cameras (standard CCIR/EIA or PAL/NTSC) and three switches for programming of the number of video cameras connected. Key for access to programming mode. 7 LEDs indicating "video camera connected" and programming/data status. Power supply module 12 VDC 0.09A max.

PORTER SWITCHBOARD

MITHO SB NF code 62940020

Table-top porter switchboard

Table-top porter switchboard with 4.3" 16:9 touch screen, hands-free audio and handset, colour Fusion Black.

MITHO SB BI code 62940010

Table-top porter switchboard

Table-top porter switchboard with 4.3" 16:9 touch screen, hands-free audio and handset, colour Ice White.

OTHER COMPONENTS

VLS/101 code 62816200

Relay unit for auxiliary devices (lights, apertures, acoustic alarms etc.).

Plastic housing for installation in electrical control panels (EN50022), dimensions 4 low-profile DIN modules. Protection rating IP30. The relay features impulse switching contacts for control of the electrical functions (switching power 5A resistive -2A inductive at a maximum voltage of 250 VAC) powered by direct or alternating current or by a low-voltage signal from the system. Power supply 10/24V AC/DC - 60 mA.

VLS/300 code 62825400

Relay unit for auxiliary devices (lights, apertures, acoustic alarms etc.).

Plastic housing for installation in electrical control panels (EN50022), dimensions 4 low-profile DIN modules. Protection rating IP30.
The unit features two relays with a switching contact, switching power 2A resistive (1A inductive) at a maximum voltage of 250 VAC (excitation coil with power supply 10/14 VAC or 14/18 VDC - 50 mA). The two relays are associated by default to the door aperture and AUX2 commands. The unit also features 6 switch for programming of the command, one potentiometer for regulation of the activation time of relay 1 (door aperture) and one LED indicating the data reception status on the BUS line.

XDV/300A code 62822000

Video signal amplifier.

Miniaturized plastic housing for installation in junction boxes (dimensions 60x44x16 mm) or electrical control panels (EN50022), dimensions: 1 low-profile DIN module. Complete with IN/OUT terminals for video signal and two switches for compensation of the signals for the method of connection. Power supply directly from X1 bus, absorption 20 mA max.

KDIN6 code 61800450

Kit with DIN guide and terminal covers for 6 modules power supply.

KDIN4 code 61800430

Kit with DIN guide and terminal covers for 4 modules power supply.

PROGRAMMING SOFTWARE

PCS/XIP code 62800310

Programming software for X1/XIP systems for Windows XP (SP2) operating system (or later).

System requirements: PC with PENTIUM III 700 MHz processor or better, 128 MB available RAM, minimum space on HD 40MB, XVGA video card. Contents of box: 4m USB cable, 2 GB pen drive. Disk includes software and user manual.

CONNECTOR CABLES

VCM/1D code 62828000

Cable with 1 mm² twisted pair.

PVC insulating sheath, diameter 7 mm, colour RAL 1021 yellow. Twist pitch 10 twists/m. Tinned copper wires, colour: RAL 9001 white and RAL 5015 blue. Nominal impedance 100 ohm (f=1 MHz), capacitance 50 pF (at 20°C).
Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment).
Supplied in 100m coils

VCM/1D/500 code 62828100

Cable with 1 mm² twisted pair.

PVC insulating sheath, diameter 7 mm, colour: RAL 1021 yellow. Twist pitch 10 twists/m. Tinned copper wires, colours: RAL 9001 white and RAL 5015 blue. Nominal impedance 100 ohm (f=1 MHz), capacitance 50 pF (at 20°C).
Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment).
Supplied in 500m coils

VCM/2D code 62823300

Cable with two 0.28 mm² twisted pairs and two 1 mm² wires.

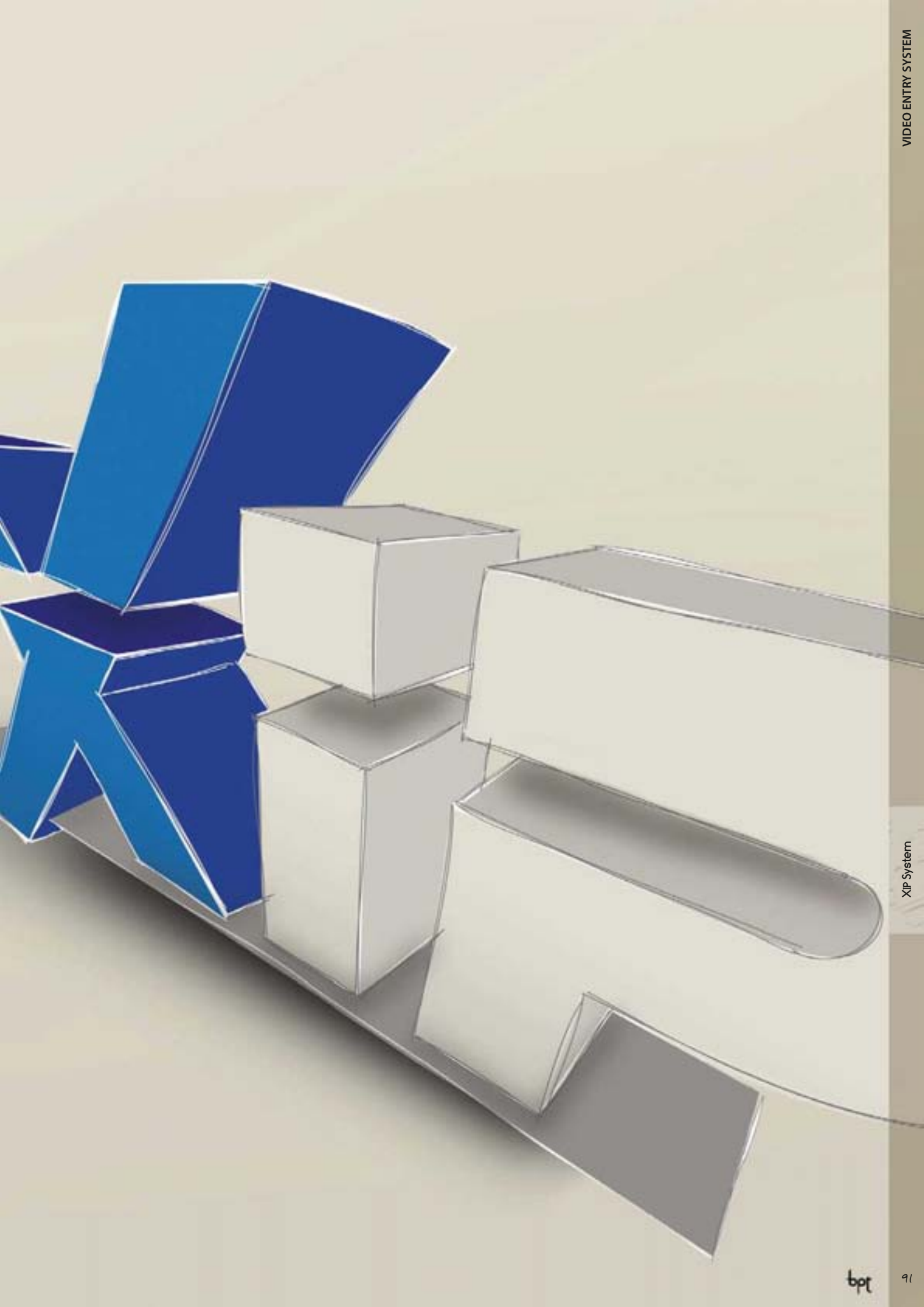
PVC insulating sheath, diameter 8 mm, colour: RAL 1021 yellow. Twisted pair, 70mm twist pitch. Tinned copper wires. Colour: white/light blue and light blue for twisted pair - red and green for power supply wires. Nominal impedance of twisted pair 100 ohm (f=1 MHz), capacitance 50 pF (at 20°C).
Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment), CEI 20-11 (latest amendment), CEI 20-37.
Supplied in 100m coils

VCM/2D/500 code 62823400

Cable with two 0.28 mm² twisted pairs and two 1 mm² wires.

PVC insulating sheath, diameter 8 mm, colour: RAL 1021 yellow. Twisted pair, 70mm twist pitch. Tinned copper wires. Colour: white/light blue and light blue for twisted pair - red and green for power supply wires. Nominal impedance of twisted pair 100 ohm (f=1 MHz), capacitance 50 pF (at 20°C). Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment)/CEI 20-11 (latest amendment)/CEI 20-37.
Supplied in 500m coils

XIP SYSTEM



A NEW FRONTIER: THE XIP SYSTEM. FROM A SINGLE-FAMILY HOUSE TO A LARGE-SCALE RESIDENTIAL COMPLEX

The new XIP system from BPT uses an ethernet distribution network as the main vehicle for communications between all the gateways. This means that the system can be expanded almost infinitely, while at the same time maintaining the traditional system of connection between the entry panels and the receivers. This structure makes installation of the system components rapid and simple. In addition, a wider range of models can be selected for installation at the various points in the system.
By utilizing traditional cables to wire up the entry panels, it is possible to install long-distance connections as well as to connect points that the existing data networks cannot reach.
The system also features the access control function, which supervises and controls all access points in the complex, as well as a range of porter services, which complete the functions provided by XIP.

UNLIMITED WIRING DISTANCES

PORTER SWITCHBOARD

H.264 VIDEO COMPRESSION

UTILIZES THE X1 SYSTEM RECEIVERS AND RISERS

CREATED FOR LARGE RESIDENTIAL STRUCTURES

CONTROL VIA INTERNET

DESIGNED TO SUPPORT FIBRE OPTICS, RADIO LINKS AND DEDICATED LINES

ACCESS CONTROL
WITH ADVANCED FUNCTIONS

THE XIP SYSTEM. NEW FEATURES, EXTENDED FUNCTIONS

FUNCTIONS

VIDEO ENTRY SYSTEMS

With XIP, the features offered by X1 are expanded to increase the possibility of communication between the various blocks. Ethernet provides an almost infinite number of simultaneous calls; thanks to IP, new and more powerful tools are now available: bi-directional video calls, re-routing and transfer of calls. A system with unprecedented flexibility.

CCTV

The images from any of the entry panels and traditional or IP video cameras can be displayed on any receiver and at all the porter stations connected to the system. The video cameras can be connected to the system power supply modules or directly to the gateways via dedicated selectors.

ACCESS CONTROL

The system features sophisticated access control functions for a large number of users that can be programmed remotely via a simple internet interface. The access permits for the individual users can be reconfigured dynamically from the porters' stations, and historical events can be displayed. The BDDE support - a sophisticated dynamic replication procedure - ensures the integrity of the data even in the event of partial outages.

PORTER SERVICES

All the functions of the system can be controlled via the porter services using software that can be installed on any standard PC. The porter services feature a simple interface (for touch panels also) with the following main functions:

- Bi-directional video call
- Interception of calls according to time profiles
- Porter group hierarchy
- Management of profile exceptions

PRINCIPAL COMPONENTS

ENTRY PANELS

Thangram

Digitha

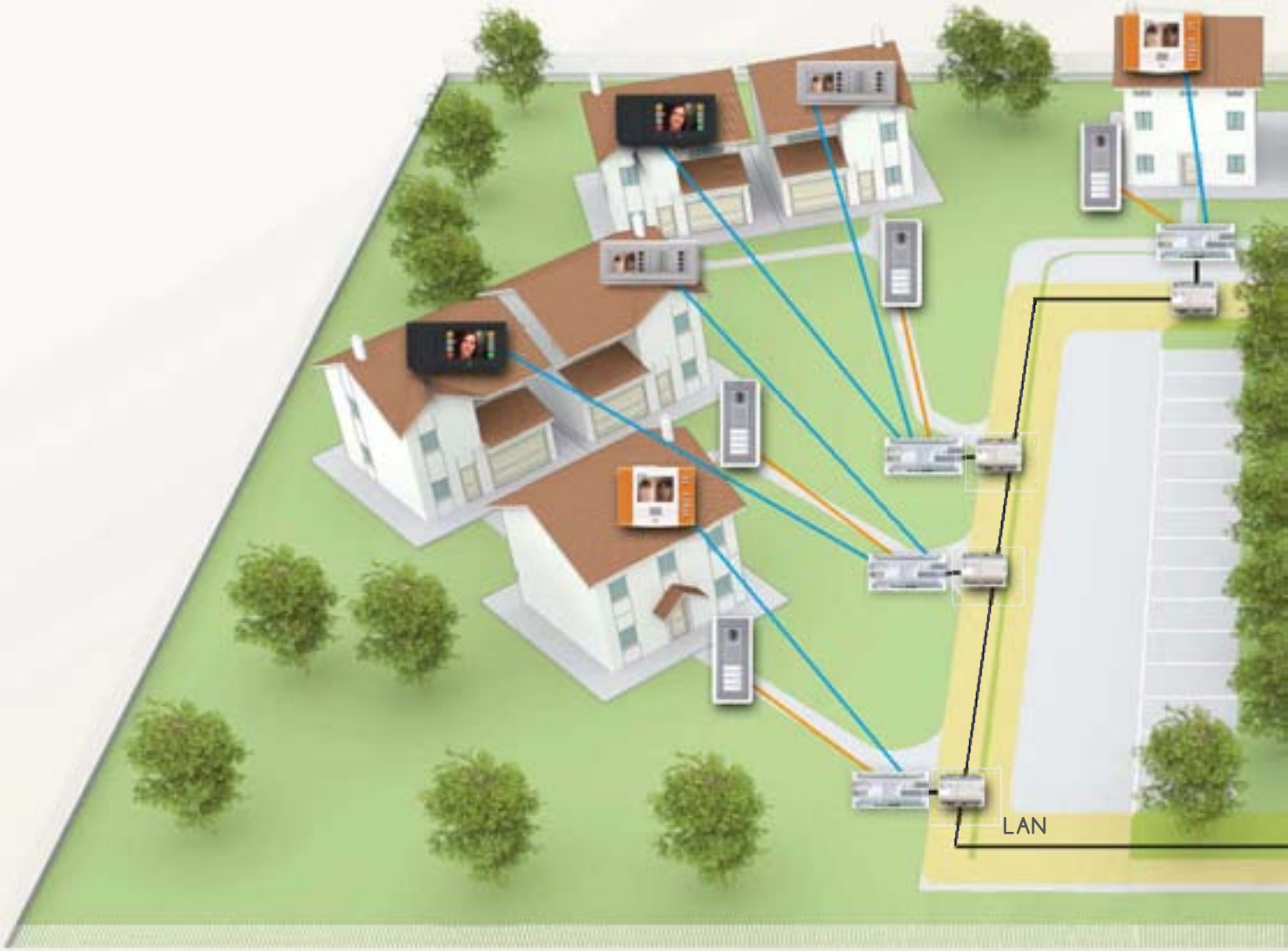
COMPONENTS

Power supply module for video entry panel VA/08	
Network interface ETI/XIP	
Network server ETI/SER XIP	

PORTER SOFTWARE

XIP/PORTER

XIP: LAN NETWORKS WITHOUT SERVERS

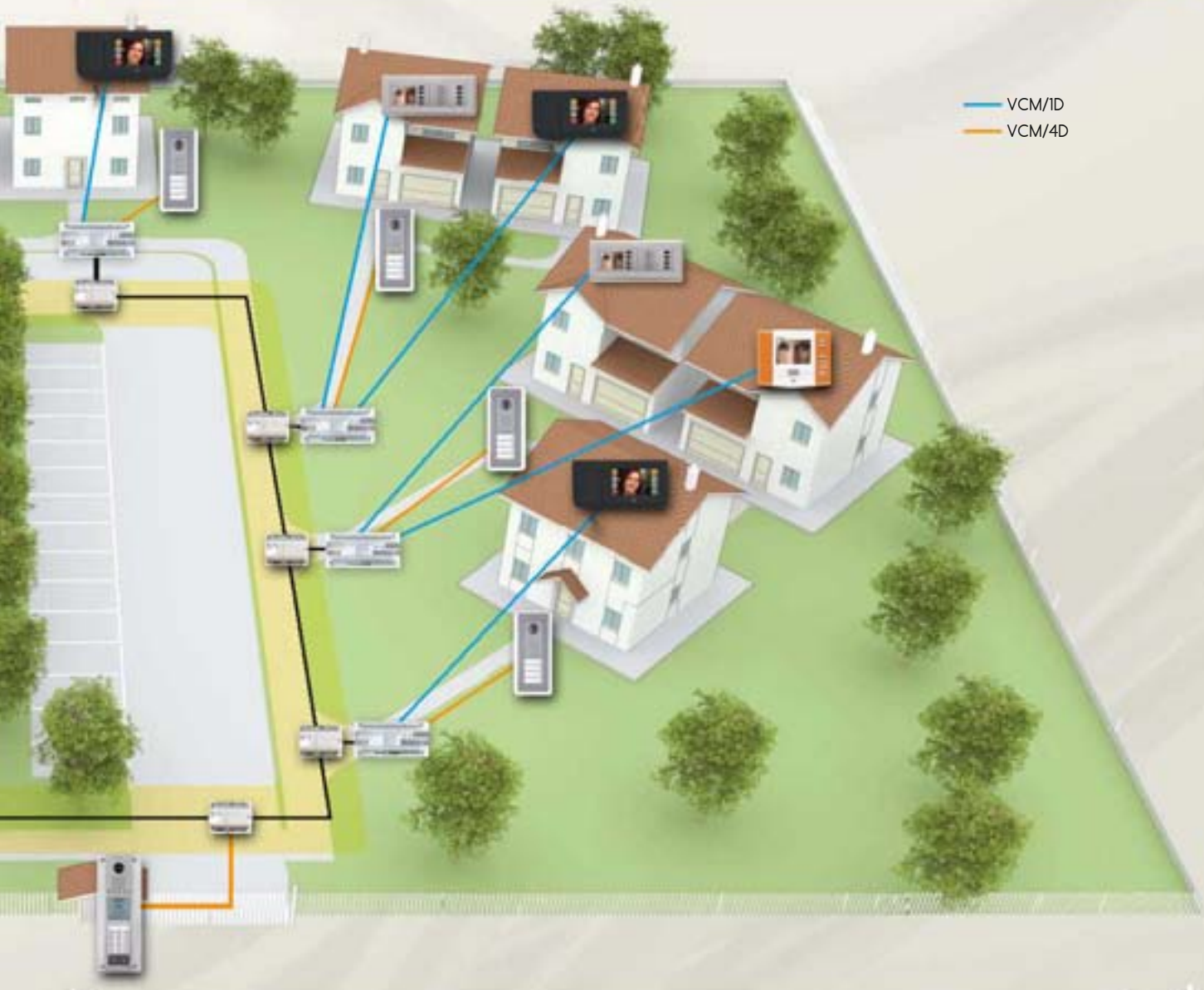


CHARACTERISTICS

	EXTENSION	The system can be expanded without any limitations using the ethernet network with copper, fibre optic or radio transmission.
	SCALABILITY	The modularity of the structure and the simplicity with which new "blocks" can be added make i possible to create scalable systems that can be developed as construction continues, so that full operation is guaranteed even in the intermediate stages.

THE ETI/XIP GATEWAY

ETI/XIP gateways can be used to develop powerful, sophisticated access control and video entry systems.
Each "block", controlled by a power supply module, is independent and thus can not only control all local communications between that block's entry panels and receivers, but also receive and transfer calls to and from other blocks.
The ETI/XIP gateways are supplied complete with a plug-in connector cable which plugs into the VA/08 power supply module and two ethernet ports for connection to the local network.



FUNCTIONS

	OSD	Supplementary information concerning the status of the calls and the system can also be displayed on the "basic" X1 receivers.
	ACCESS CONTROL	Using one or more gateways, all the access control functions can be added to the system and synchronized between all the blocks to create a single system.
	DUAL CALL	The gateway can handle two audio/video calls simultaneously: one from the entry panel towards to the network, and one from the network to the riser, thus enhancing the power of the system.
	REMOTE PROGRAMMING	Possibility of remote internet access to the system programming function for remote assistance, updating and programming of the system.
	USE OF EXISTING NETWORKS	The gateways utilize the ethernet 10/100 standard and can therefore be connected to any existing data network, thus reducing the costs of distribution.

XIP: LAN NETWORKS WITH SERVER

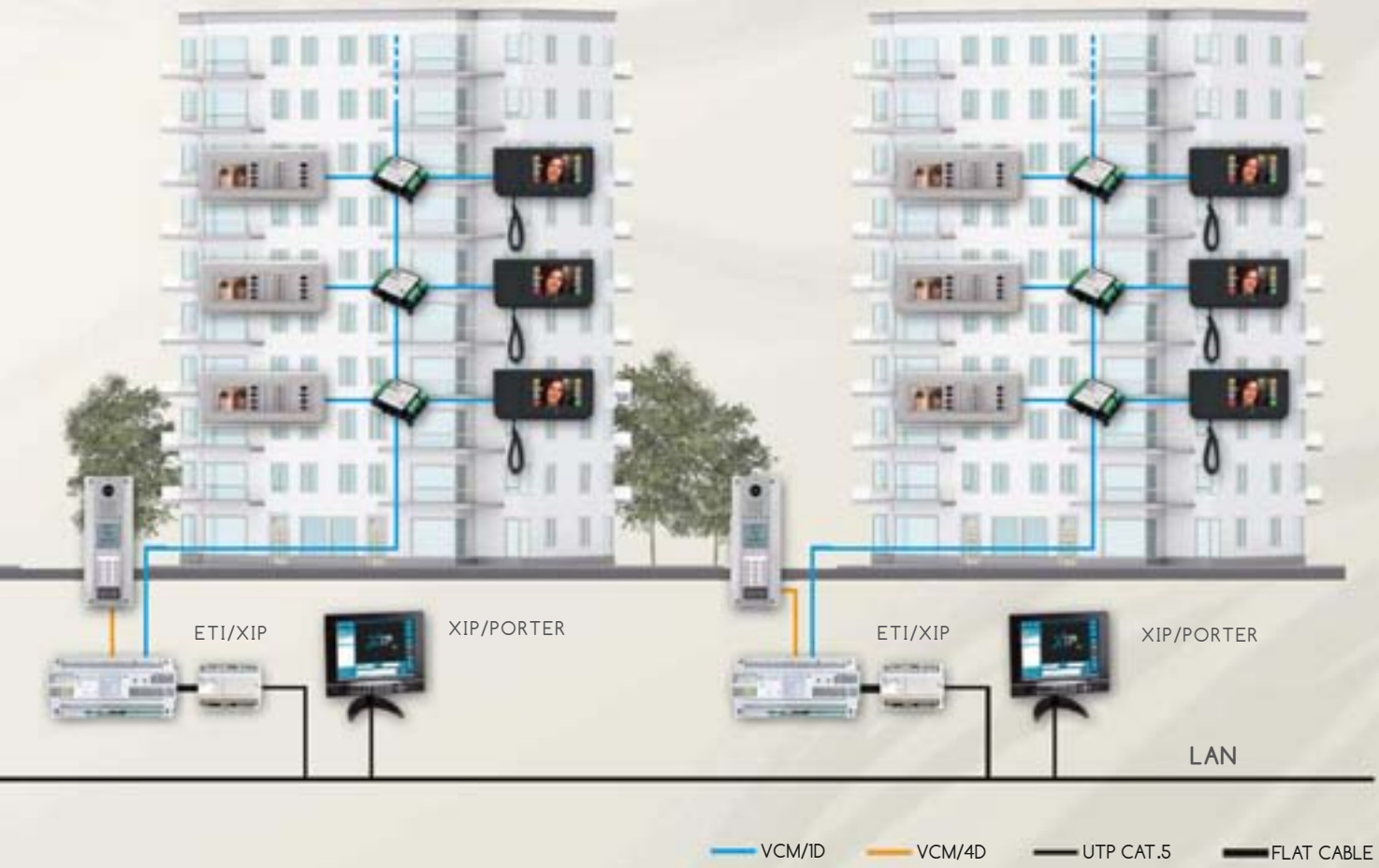
ETI/SER XIP SERVER

The server makes it possible to utilize the porter software, and also centralizes the access control and porter service functions. The unit is housed in a casing measuring 115x100x26 (WxDxH). Protection rating IP20. The server features one RJ45 connector for 10/100 ethernet, one HDMI socket for connection to a digital monitor (for diagnostics only), four USB ports for FW updates, back-ups or exporting the event logs. The server is supplied complete with a license for the utilization of the Porter software.

NEW FEATURES XIP SYSTEM VERSION 2.X

The XIP system has today evolved even further, with the introduction of the firmware 2.x versions for the principal devices and software applications, which offer new system features and the management of interoperability with devices manufactured by third parties.
As from today, it is possible to use a Multiserver architecture in an XIP system - the ideal solution when two or more sections are linked via a low bit-rate connection (e.g. a radio link, VPN via internet with non-guaranteed band-width, adsl link etc.). Each server controls the calls concerning its specific sub-system, which avoids congestion of the line that interconnects the various sections, thus improving the audio and video quality of the calls and allowing for a greater number of simultaneous calls.

With the introduction of the new 2.x version, it is also possible to interact with third-party devices (SIP ATA and SIP Gateway), so that the user can, for example, receive a call from an entry panel on an analogue telephone (either traditional or cordless) – a useful feature for a condominium switchboard operator – and forward calls from the XIP system to a local telephone network (such as a company network) or to the GSM or PSTN networks. In each of these cases, other features can be added – such as opening a door or switching on a light – using simple preset DTMF codes. As well as the traditional world of telephone communications, XIP can today interface with SIP telephones and third-party VoIP switchboards, which are increasingly popular in the world of services because these provide a series of advanced functions that cannot be handled by traditional telephone systems. Where consent is given by the devices, it is possible to make video calls from the entry panel to SIP telephones and to utilize DTMF tones for call activation.



ADDITIONAL CHARACTERISTICS AND FUNCTIONS

	PORTER SERVICES	The server provides porter services which include the operating profiles and the control software for the porter function.
	PORTER SOFTWARE	The control software for the porter function can be installed on any PC, and provides all the functions for control of the system. The porter can receive and distribute all calls throughout the system, and can also transmit a video signal from a locally-connected webcam.
	BI-DIRECTIONAL VIDEO CALLS	All the porters can communicate using the bi-directional video function.
	OPERATING PROFILES	The porter services also make it possible to intercept all calls from the entry panels and to forward them to the respective porters. The operating profiles include all the parameters governing the re-routing or transfer of all calls to the receivers.
	WEBCAM	The porter can use a normal webcam to transmit images, including his/her own.
	RE-ROUTING OF CALLS	The system can be set to re-route calls to the porter in certain conditions (line busy, no reply, privacy).
	UNCONDITIONAL FORWARDING	It is possible to configure the system temporarily so that all calls are unconditionally re-routed to the porter.

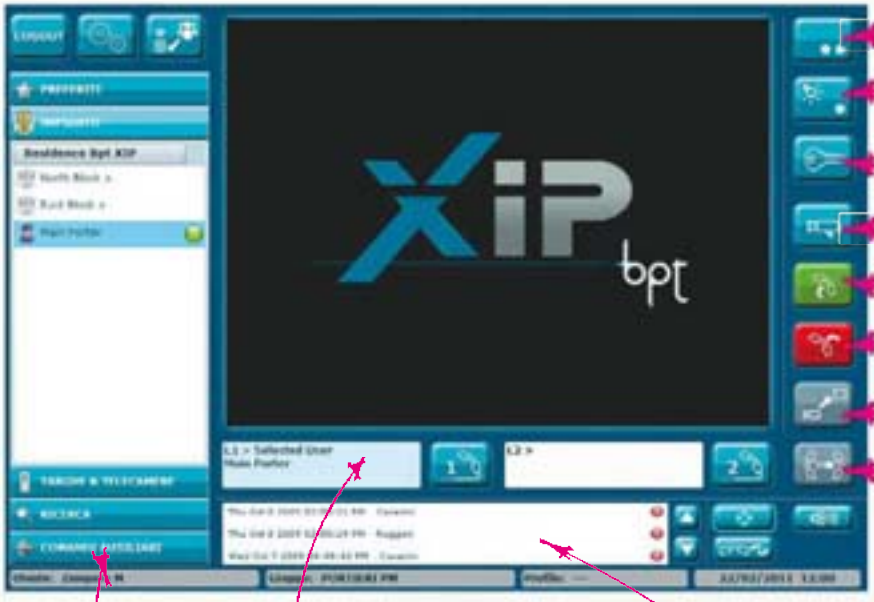
PORTER SERVICES

The software for porter services, which runs under the Windows operating system, can be used to supervise the entire system even in large-scale residential complexes. The interface has been developed specifically to give the operator full control of the system in the simplest and most practical way. Simple, intuitive commands and the possibility of using the software with a touch-screen PC are especially useful to operators who are accustomed to more traditional systems. A webcam can be connected directly for bi-directional contact between all the porters.

INTERFACE

The synoptic section displays all the devices in the system in three different ways that will facilitate the search function; coloured icons identify the status (free, busy etc.).

The display area comprises three different menus:
- **Favourites:** to select from a pre-programmed list of devices.
- **Full plant:** structure consisting of all the devices connected to the system.
- **Entry panels and cameras:** structure comprising all the entry panels and video cameras connected to the system.



Aux 2 or porter call

Switches on the lights on the stairway for the current call or on the programmed default stairway

Actions the door lock release for the current call or on the default lock

Automatically switches on the pre-programmed entry panels and/or video cameras

Reply to incoming call

Terminate the current call

Transfers the video image (not audio) from the entry panel to the receiver desired.

Transfers the current call to another user

The call area indicates the status of each of the two available communication channels

The 'events' log shows missed calls, "Panic" alarm calls or the list of messages, depending on which push button is pressed.

Pressing the "Auxiliary commando" push button is possibile to display the auxiliary commands list previously programmed.

INCOMING CALL - EXAMPLE

When a call is received, the image from the entry panel is displayed in full-screen mode on the porter's monitor; the image of the porter is shown in PIP (picture-in-picture) mode.
If the call is transferred from the entry panel to a receiver, the external video image will be shown (with the porter in PIP mode) on the receiver.

SIMULTANEOUS CALLS - EXAMPLE

If a second call is received while another call is in progress, the images will be displayed as shown opposite. One of the two calls can be placed on hold at the touch of a fingertip.

TECHNICAL DATA

MINIMUM PC REQUIREMENTS	
CPU	Pentium 4 2GHz
SCREEN	1024x768
RAM	1GB
HARD DISK	350MB free
OPERATING SYSTEM	Windows XP/Vista/Win7
AUDIO DEVICES	Microphone+loudspeaker
VIDEO CAMERA	Built-in / external
REQUIRED SOFTWARE	Adobe Flash Player 10; Windows Explorer 7.

ACCESS CONTROL FUNCTIONS

The access control function is designed to control access via the transit points controlled by the entry panels without the need to add any devices to the video entry system. The user is identified by an RFID Tag or by a numerical code; if the code is valid and enabled, the system will action the lock release at the transit point.
The access control functions are implemented by the VA/01 and VA/08 power supply modules, and can therefore be used with extremely simple systems in which the entry panels feature an RFID reader module or a numeric keypad module.
Programming can be carried out manually (though with certain limitations) or using the system configuration software to programme the badges and the codes assigned to each user and the access points which they are authorized to transit.

The ETI/XIP video entry system gateways add a series of advanced access control functions which can be configured by connecting directly to the interface via the data network and using a standard internet browser such as Internet Explorer.
The advanced access control functions are associated with the access permits assigned to each group of users.

Example of access control for a user having a specific access permit:
- access path to Building A only
- time of day for access 08:30 - 12:30
- days of the week: Monday - Friday
- holidays: NO

BDDE BY BPT - SECURITY OF DATA

To guarantee the security of the data memorized and the integrity of the information in the event of a breakdown in the data network, the system utilizes the BDDE (**BPTDynamic Data Exchange**) system, which can be used for replication, in at least two gateways, of all configurations, logs and user information. The BDDE system not only performs independent synchronization of all the data; if a power supply module or an interface require replacement, the system automatically transmits the configuration data and settings to the new devices so that full operation can be resumed without delay.

The security of the data and of its transitions via the local network is guaranteed between the interfaces and between the interface and the configuration PC by the SSL 128-bit encrypting protocol (the same system used in Home Banking software).

All information stored in the interface databases is encrypted using the MD5 algorithm for total security.

ACCESS PERMITS

A combination of four parameters are used to define access permits:

PATHS	A "path" is a set of transit points to which access is permitted.
TIMES OF DAY	Specific periods during the course of the day during which access is permitted.
DAYS OF THE WEEK	Days of the week for which access is permitted.
HOLIDAYS	Days on which access is NOT permitted.

STEP 1: CREATING AN ACCESS PERMIT

The four parameters combine to create the access permit. Access will only be granted when all four of these parameters are complied with.

For example:
1) the entry panel must be on the specified path
2) the time must fall within the specified periods
3) the day of the week must be among those selected
4) the day must not programmed as being a holiday

STEP 2: ASSIGNING THE NUMERIC CODE AND BADGE

Each user is assigned a numerical code and, where required, an RFID tag (badge).

STEP 3: CREATION OF USER GROUPS

Multiple access permits are associated with groups with which the individual users, too, are associated.
When a user is identified by a badge or code and at least one of the access permits associated with his or her group is valid, access will be granted.

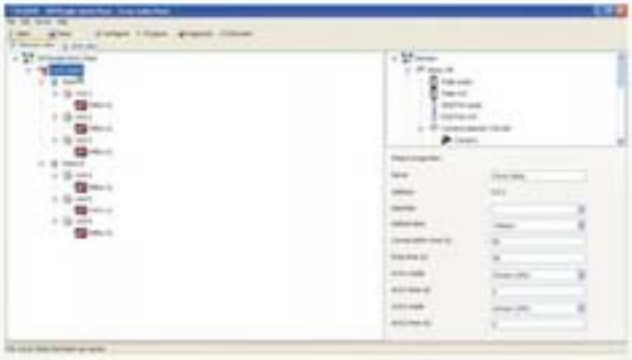
CONFIGURATION OF THE SYSTEM

The new devices that make up the X1 and XIP systems are all fitted with USB ports, so that it is unnecessary to use bulky serial adapters, and programming is faster and simpler.
The configuration software for the new systems (PCS/XIP) is designed to create all the structures necessary for the system. Using a single set of software and one graphic interface, just a few simple clicks of the mouse are sufficient for configuration of a video entry system of any dimensions, from a single-family home to an entire digital village.

All the objects that make up the system can be transferred to the main part of the screen using the simple "drag & drop" method. From the "objects properties" area, all these objects can be configured with all the necessary parameters and can be assigned names which will simplify control and maintenance.

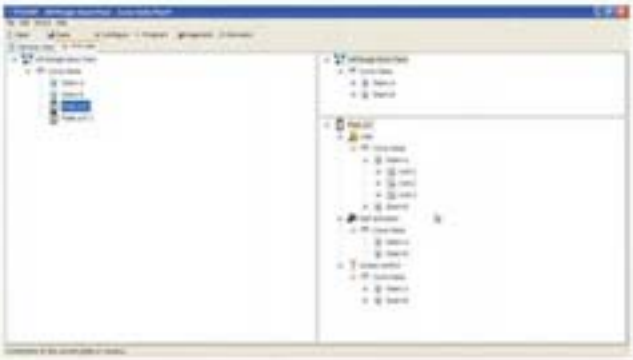
Once the structure has been created and all the devices have been configured, all the devices connected to the system can be programmed rapidly from the USB port.

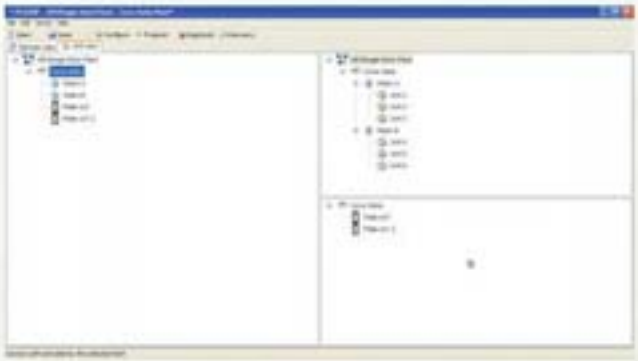
In this way, the entire system can be programmed (or re-programmed) from a single point.



All RFID access control devices can be acquired off-line via the PCS and with DREAD, and programmed once they have been connected to the system.
All access control information stored on the PC is encrypted.

The "Unit view" section can be used to enter advanced access control settings and for self-connection of the entry panels by the users.

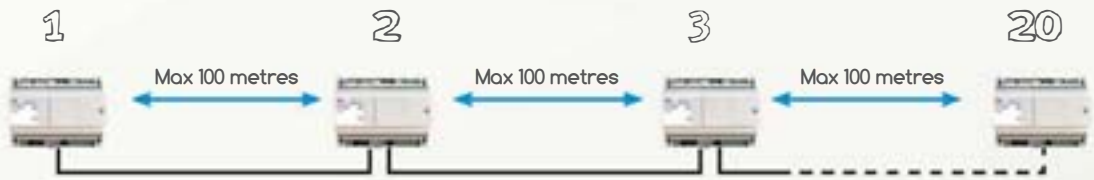




CONFIGURATION OF THE NETWORK

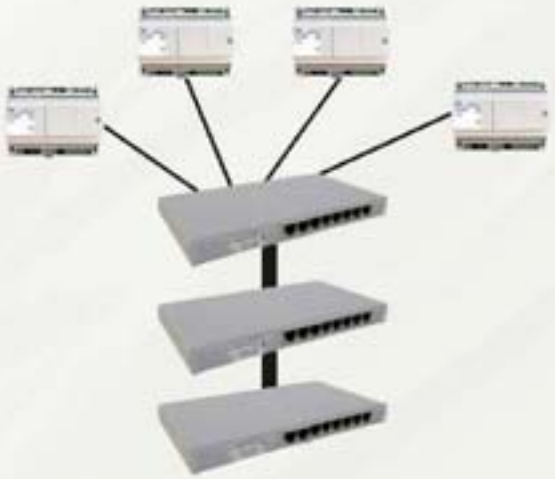
DAISY-CHAIN CONNECTIONS

The gateways can be interconnected in daisy-chain configuration (i.e. in series - see below) subject to a maximum distance between gateways of 100 metres. Up to a maximum of 20 gateways can be connected in this way.
Using this type of configuration, the system can be installed without the use of other network devices.



STAR CONNECTION

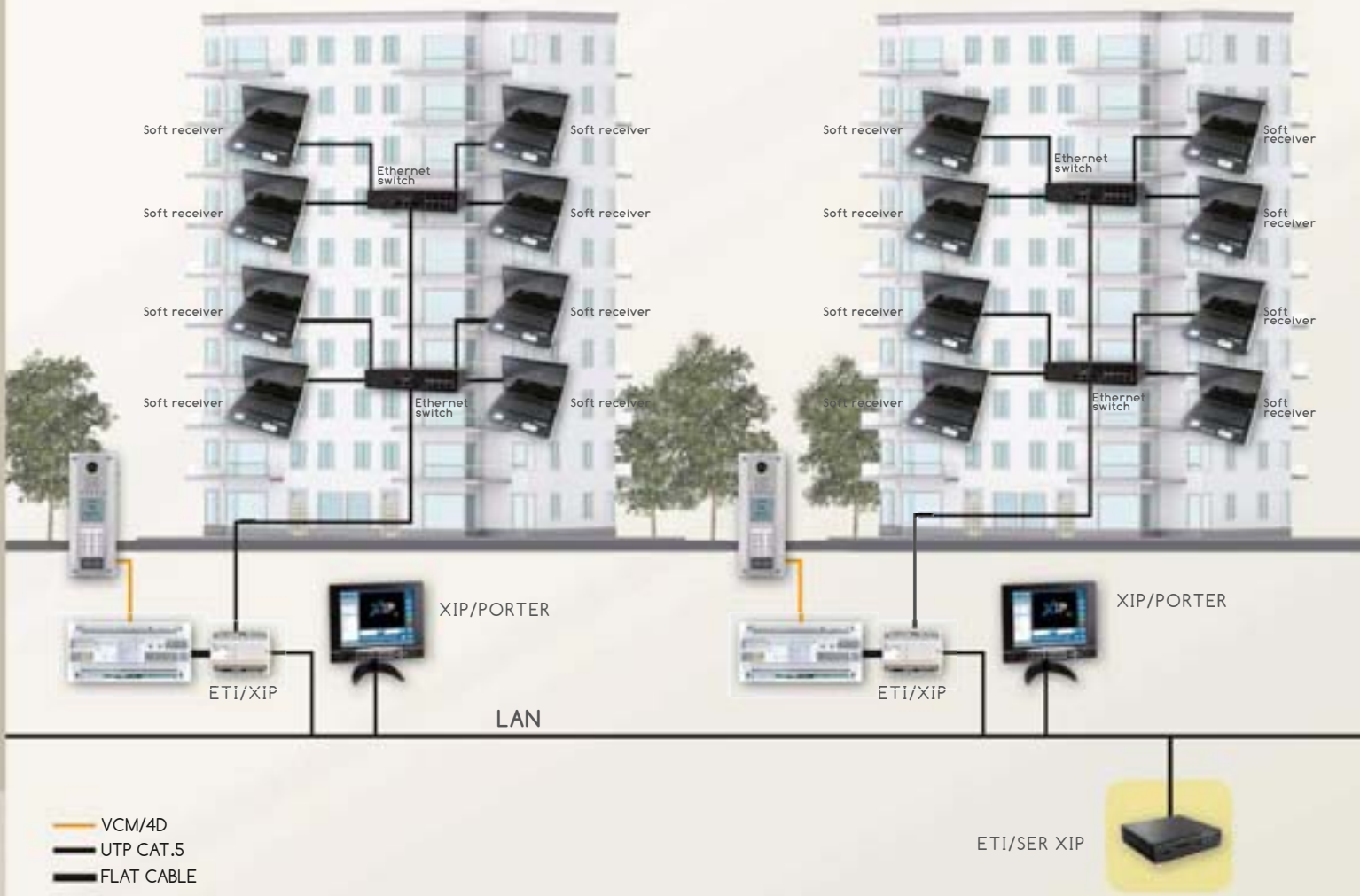
If the gateways are connected to a pre-existing network structure, different limitations are applicable. The system should be wired in star configuration (which is typical of ethernet networks).
The network can include not only the CAT 5, but also sections in fibre optics or radio links. Whichever solution is used, the bandwidth must be sufficient.



CONFIGURATION OF THE NETWORK PARAMETERS

For configuration of the network parameters, it is sufficient to access the web interface and modify the parameters in the corresponding window.
Once the IP address has been configured, the configuration tool can be used to set up the remaining devices.

"SOFT RECEIVER" VIDEO RECEIVER FOR PC



The "Soft Receiver" software application enables you to install a true internal IP video receiver on your home or office PC. It integrates into BTP's XIP system simply by connecting the PC to the network that controls the video entry system.

Besides adding classic video entry functions using a graphic interface that's easy for the user to understand, Soft Receiver also offers a number of advanced functions that include audio/video intercom calling both to other BPT Soft Receivers and to all X1 internal receivers (if the PC is equipped with a webcam). What's more, it enables the user to manage a list of missed calls, choose from favorite contacts, and run a dynamic search of the users and porters present in the XIP system.

Another important function consists of managing two audio/video lines: for example, a call can be received on one line while a call is in progress on the other line, which is put on hold while the call on the second line is answered and then ended. The user then returns to the call on the first line.
An audio/video call can even be transferred to another internal receiver.

In order to operate, the Soft Receiver software requires a server in the ETI/SER XIP system, which registers the program by validating its license for use.

This software can be installed only on terminals running Windows XP/VISTA/WIN7.

DESCRIPTION OF THE MAIN SCREEN AND THE FUNCTIONS OF THE BUTTONS

	Exits the application
	Accesses the application setup function
	Blocks incoming calls, which are recorded on the list of missed calls
	AUX 2 command (configured by the installer)
	AUX 1 command or stairway light
	Opens the door at the external location being displayed
	Displays images from an external location or selected video camera
	Answers an incoming call or places a call
	Ends the call in progress
	Transfers a call
	Line
	Call on hold
	Incoming call
	Outgoing call

Icon	Description
	External location
	Video camera
	Group of porters
	Porters

Icon	Description
	Group of users
	User
	User on IP line
	User on analog line

SOME IMPORTANT FUNCTIONS

	ANSWERING A CALL	To answer a call and activate the audio feed to the caller, press the "answer" button or the button for the line where the call is being handled.
	OPEN DOOR	While audio or audio/video communication with an external location is in progress, press the symbol to open the electric lock linked to the symbol.
	AUXILIARY COMMANDS	The auxiliary buttons can be programmed to actuate devices connected to the system, such as electric locks, gates, lights, etc.
	CALL TRANSFER	After placing a call on hold, the user where the call will be transferred is chosen from a list of users. A search window can be used to locate a user if necessary, and the call is then placed.
	SELF-CONNECTION	Images are displayed from any external location or video camera selected from an internal list. By pressing the key repeatedly, images from devices on the list can be displayed in circular sequence. Self-connection only activates video communication; to activate the audio, press the button..

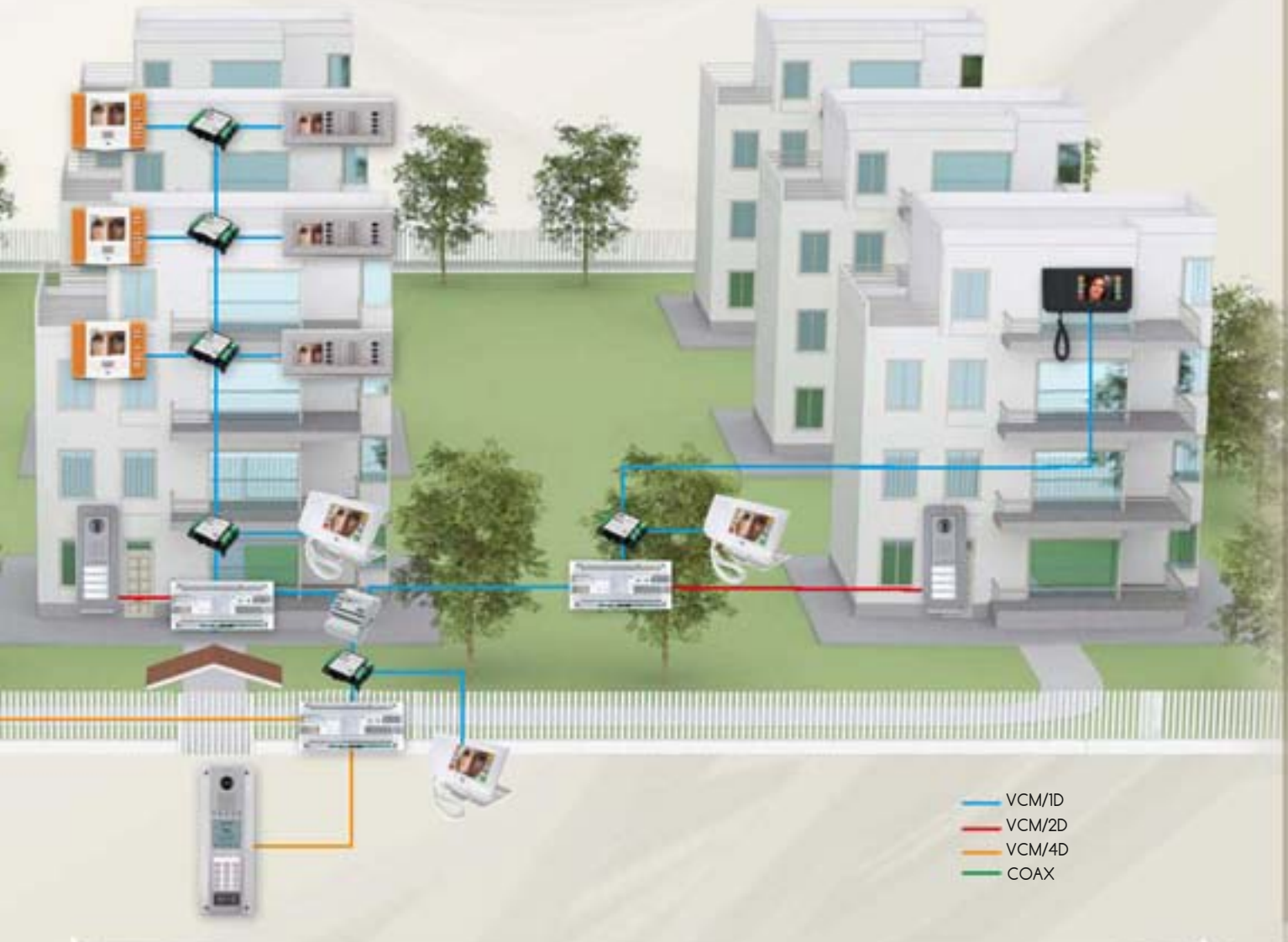
XIP: RESIDENTIAL SYSTEMS WITHOUT LAN

Systems for medium-sized residential complexes can be created using the backbone connecting the main entrance point(s) and the individual residential units (houses and/or blocks), using a normal non-polarized twisted pair (or, for maximum performance, it is possible to use BPT's VCM/1D dedicated cable).
The line derivation from this cable can be created using normal signal distributors for each of the blocks (Daisy-chain configuration), or by distributing a twisted pair for each block directly from the principal entrance (star configuration).
The system can be set up for all the functions directly using software.
Refer to the tables of characteristics for the correct method of utilization and the technical performance data.

MITHO SB

It is possible to create installations for residential complexes with main porters and separate porters for each block. Each porter switchboard may intercept calls made to users belonging to the corresponding block and then transfer them as required. The porter switchboard comprises a table-top audio/video terminal with a 4.3" touch screen. The terminals will be programmed using the programming tool and provided with a list of all the users served by the system. The terminals may display incoming calls and alarm messages.

CAPACITY OF A SYSTEM WITHOUT LAN



BLOCK

- Up to 64 blocks (buildings)
- Up to 108 users for each block
- Up to 2 entry panels for each block
- Distance between entry panel monitor and block: up to 150 metres
- Intercom service between all receivers in block without additional wiring
- 8 monitors in simultaneous call mode
- Self-connection, door lock release, 2 commands for auxiliary functions and confidentiality of calls
- up to 2 porter switchboards per block for a total of 128 block switchboards
- up to 2 main porter switchboards per block for a total of 128 block switchboards
- up to 2 main porter switchboards

SYSTEM

- Up to 2,000 users
- Up to 2,600 metres between main power supply module and block monitors.
- Up to 4 main entry panels

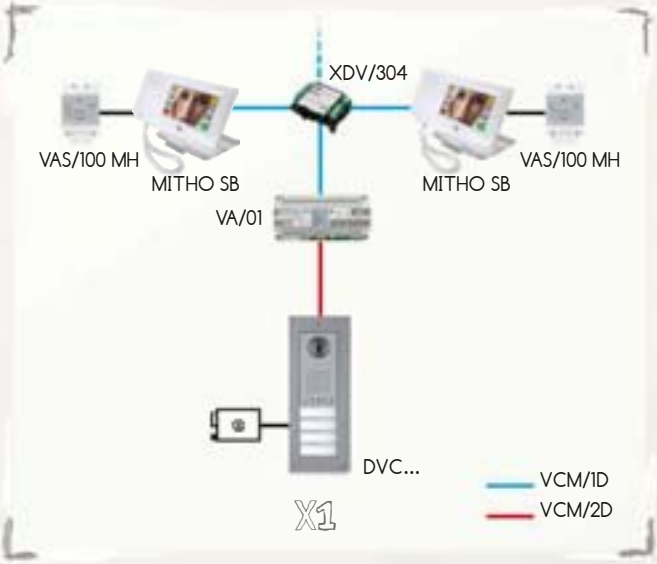
MITHO SB

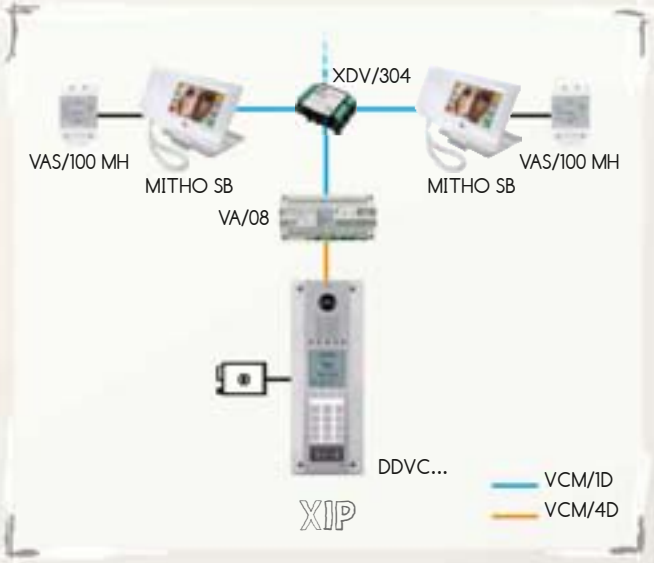
The advanced solution for the porter services

Mitho SB is a table-top colour video switchboard with a 4.3" 16:9 format LCD touch screen, and is available in two colours: Fusion black and Ice white. As with all terminals in the "Mitho" range, navigation of the numerous functions is simple and intuitive, using colour codes for immediate association between the various functions and the different colours. This range also offers image zoom/pan functions, video-voicemail and audio using the handset or the hands-free option. Mitho is supplied complete with an elegant and practical table-top support comprising a sturdy 3 mm steel base with a refined, sleek shape, and an adapter in two colours: Fusion black and Ice white.

X1 AND XIP SYSTEMS FOR SINGLE BLOCKS

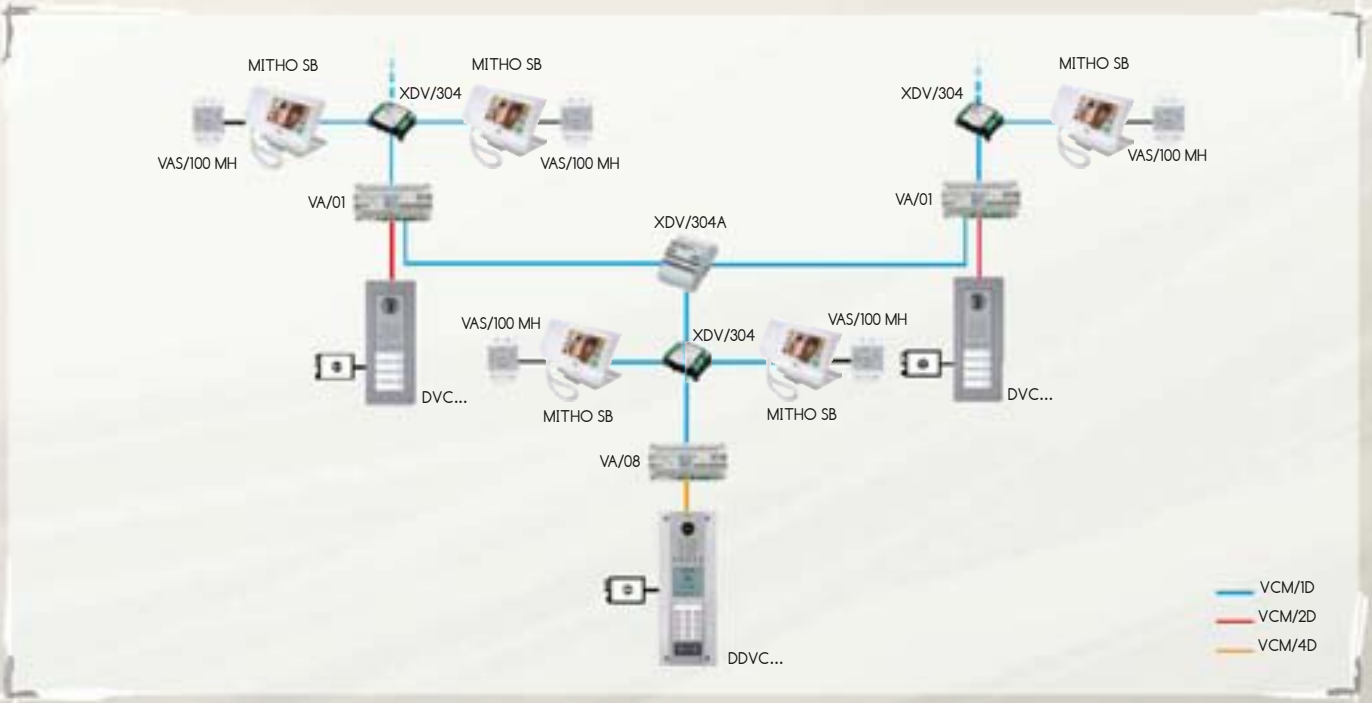
Mitho SB is the ideal solution for simple systems with porter services, both for X1 and XIP single-block installations, especially for a limited number of users. Up to two porter switchboards can be installed for each system.
The porter switchboards can intercept all calls made to users of the system.





XIP SYSTEMS WITHOUT LAN

Mitho SB is a sophisticated solution for providing porter services in XIP systems in which LAN networks are not used.
Up to two units can be installed for the main block, and another two for each of the secondary blocks, connecting the units immediately downstream of each VA/01 and VA/08 main unit.
The Mitho SB audio/video switchboard can intercept all calls made from entry panels and passing along the riser to which the switchboard is connected.



The Mitho SB interface is specially designed for simplicity of operation. The switchboard operator always maintains full control of the status of the system and can perform the following functions simply by touching the screen:

Switch on stairwell lights and auxiliary services
Enable /disable the interception of calls
Scroll down the list of users for transfer of calls
Forward messages to the individual receivers
Listen to messages memorized in the voicemail system
Select the most frequently-used functions from the "Preferred" menu
Control all the video cameras, including the entry panels
Examine the list of unanswered calls
Enter operating profiles and weekly programming
Action the door release mechanism
Enable/disable the voicemail function
9:01
AUX 2
out side
calls
setup

When a call is received from one of the entry panels, the switchboard operator is advised by a customizable ringtone melody and receives the video image from the entry panel. At this point, the operator may:
- Allow the caller to enter immediately
- Open the audio channel with the entry panel
- Transfer the call to a different user

Transfer of the call takes place via a smart-sensitive user search. Once selected, the call from the entry panel is put on hold and a call is made to the user.

During the call to the user, and with the call from the entry panel on hold, the operator can:
- Transfer the call from the entry panel directly to the user
- Open a conversation with the user and then decide whether or not to transfer the call from the entry panel.

After terminating the call by pressing the relative key, the operator re-establishes communication with the conversation that was left on hold and the system returns to the preceding video page.

The system comprises two different operating profiles:
- porter present
- porter absent: all calls are routed automatically to the receivers called.

Switching from one profile to the other can be carried out manually using the icon on the Home Page, or automatically using the weekly programming function.

BPT CABLES

With the XIP system, BPT offers guaranteed performance and signal quality irrespective of the selected method of transmission. The maximum distances depend on the number of receivers connected and the maximum power absorption of the overall system.

VCM/4D CABLE

Cable comprising 3 twisted pairs (wire section 0.28 mm²) and 2 wires (section 1.5 mm²).

PVC insulating sheath, diameter 11 mm, colour: RAL 1021 yellow. Twisted pair, 70mm twist pitch. Tinned copper wires. Colour: blue/blue-white - brown/brown-white - orange/orange-white for twisted pairs - red and green for power supply wires. Nominal impedance of twisted pairs 100 ohm (f=1 MHz), capacitance 50 pF (at 20°C). Minimum cable curvature 105 mm. Fully compliant with CEI 46-6 (latest amendment)/CEI 20-11 (latest amendment)/CEI 20-37.
Supplied in 100m or 500m coils.

		Colour of wire	Thickness	Type of cable
VCM/4D		Green	1.5 mm²	Power supply
		Red	1.5 mm²	
		Light Blue	0.28 mm²	Audio
		White/Light Blue	0.28 mm²	
		Orange	0.28 mm²	Bus
		White/Orange	0.28 mm²	
		Brown	0.28 mm²	Video
		White/Brown	0.28 mm²	

VCM/2D CABLE

Cable with 0.28 mm² twisted pair and 2 wires (section 1 mm²).

PVC insulating sheath, diameter 8 mm, colour: RAL 1021 yellow. Twisted pair: 70mm twist pitch. Copper wires. Colour: white/light blue and light blue for twisted pair - red and green for power supply wires. Nominal impedance of twisted pair 100 ohm (±20%) (f = 1 MHz), capacitance 50 pF (at 20°C).
Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment), CEI 20-11 (latest amendment), CEI 20-37.
Supplied in 100m or 500m coils.

		Colour of wire	Thickness	Type of cable
VCM/2D		Green	1.00 mm²	Power supply
		Red	1.00 mm²	
		Light Blue	0.28 mm²	Bus
		White/Light Blue	0.28 mm²	

VCM/1D CABLE

Cable with 1 mm² twisted pair.

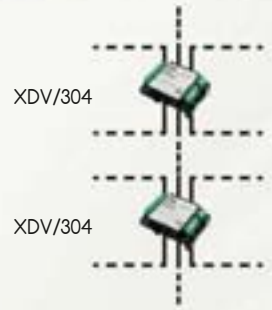
PVC insulating sheath, diameter 7 mm, colour: RAL 1021 yellow. Twist pitch 10 twists/m. Tinned copper wires, colour: RAL 9001 white and RAL 5015 blue. Nominal impedance 100 ohm (±15%) (f = 1 MHz), capacitance 50 pF (at 20°C).
Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment).
Supplied in 100m or 500m coils.

		Colour of wire	Thickness	Type of cable
VCM/1D		Blue	1.00 mm²	Bus/Power supply
		White	1.00 mm²	

RECOMMENDED WIRES

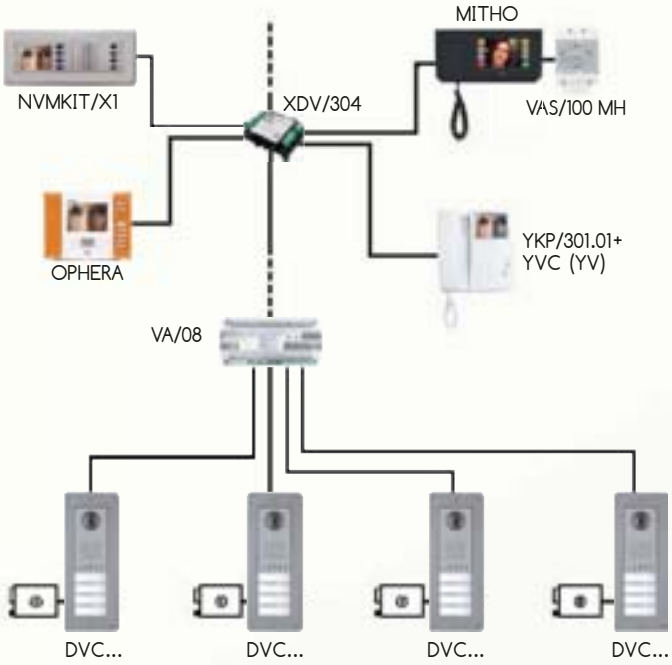
FOR EACH TYPE OF CONNECTION

TYPE OF CONNECTION	RECOMMENDED WIRE
Connection between entry panels and power supply modules	**VCM/4D**

TYPE OF CONNECTION	RECOMMENDED WIRE
Distribution on riser 	**VCM/2D** for X1 systems with separate power supply for the receivers **VCM/1D** for X1 systems with receiver power via bus

DISTANCES

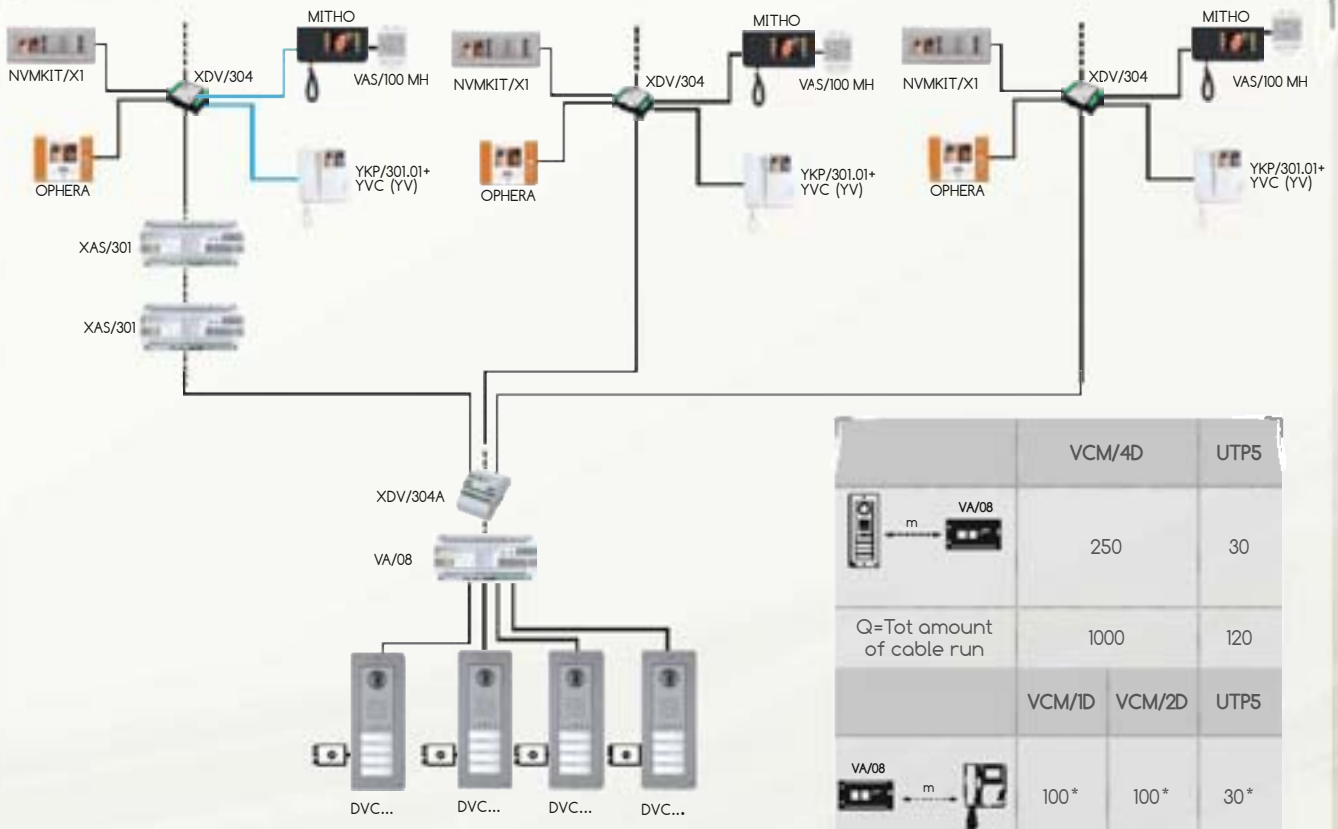
STANDARD SYSTEM



	VCM/4D	UTP5
VA/08 — m	250	30
Q=Tot amount of cable run	1000	120

	VCM/1D	VCM/2D	UTP5
VA/08 — m	100	250	30
Q=Tot amount of cable run	1000	1000	400

SYSTEM WITH LINE AMPLIFIER



	VCM/4D	UTP5
VA/08 — m	250	30
Q=Tot amount of cable run	1000	120

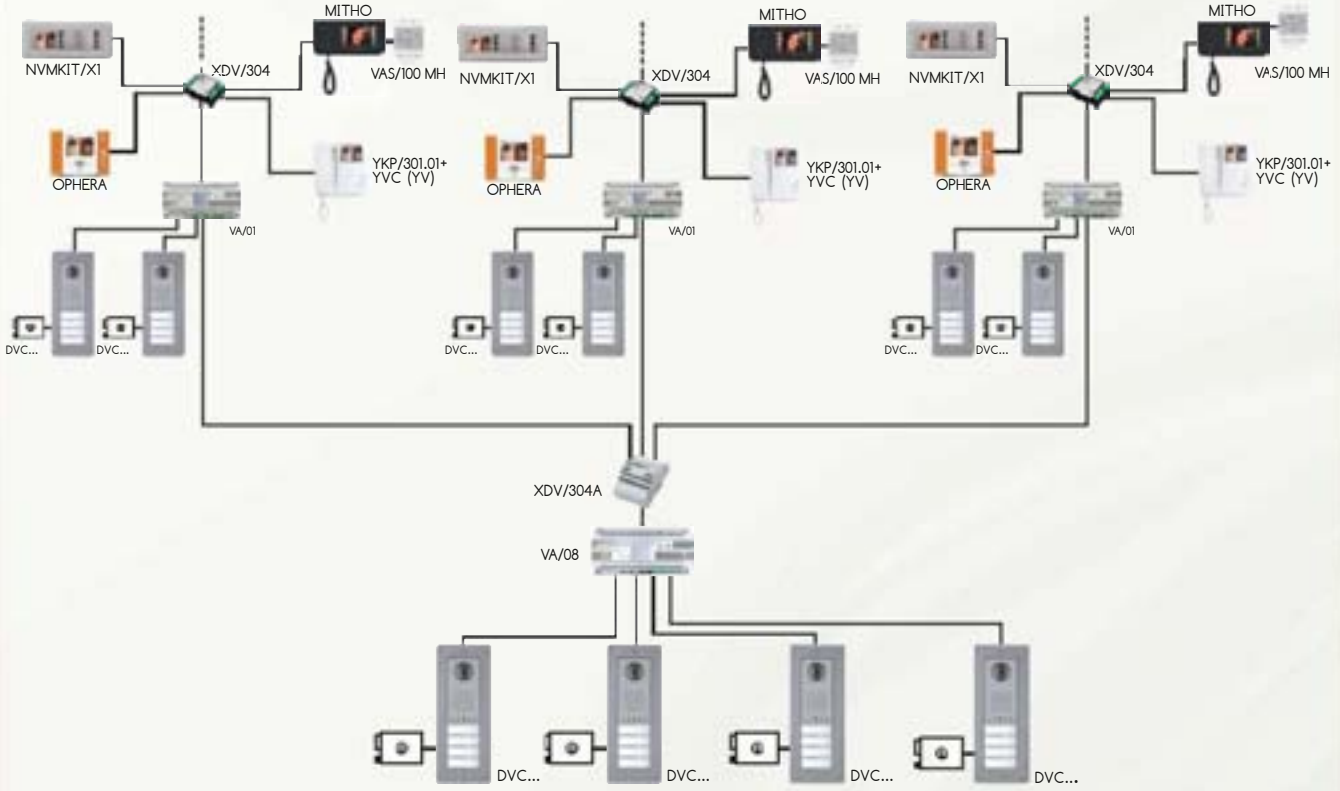
	VCM/1D	VCM/2D	UTP5
VA/08 — m	100*	100*	30*
Q=Tot amount of cable run	1000*	1000*	400*

Max 2 units of XAS/301 in-out connection.

(*) For each additional power supplier XAS/301, maximum distance from entry panel to receiver and from VA/01 power supply to receiver increases by 250 m (extra 1000 m of cable run), provided there is no receiver or the latter is locally supplied

DISTANCES

RESIDENTIAL SYSTEM



	VCM/4D	UTP5
VA/08 — m	250	30
Q=Tot amount of cable run	1000	120

	VCM/1D	VCM/2D	UTP5
VA/08 — m — VA/01	250	250	250

	VCM/2D	UTP5
m	150	60

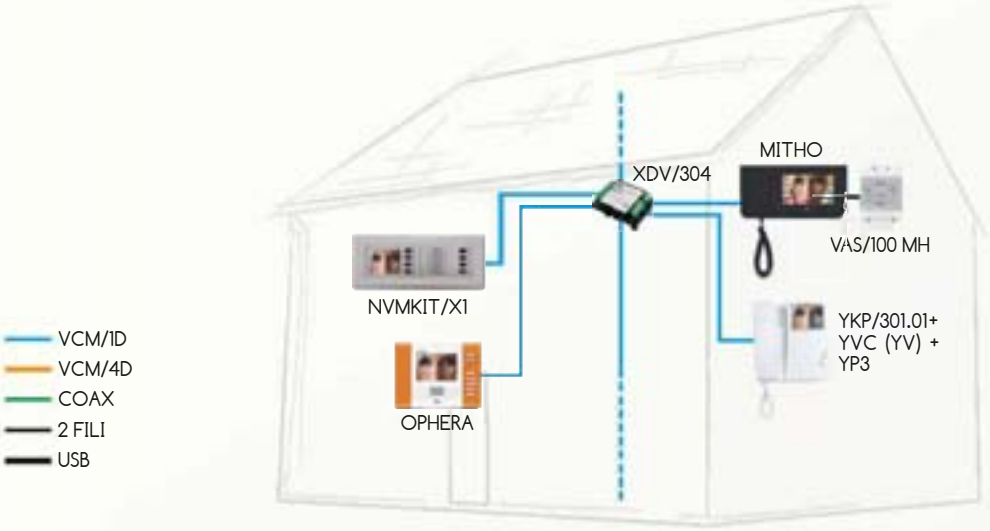
	VCM/1D	VCM/2D	UTP5
VA/01 — m	100	100	30
Q=Tot amount of cable run*	600	600	400

(*) The total amount of cable run refers to the wiring from the furthest receiver and entry panel.

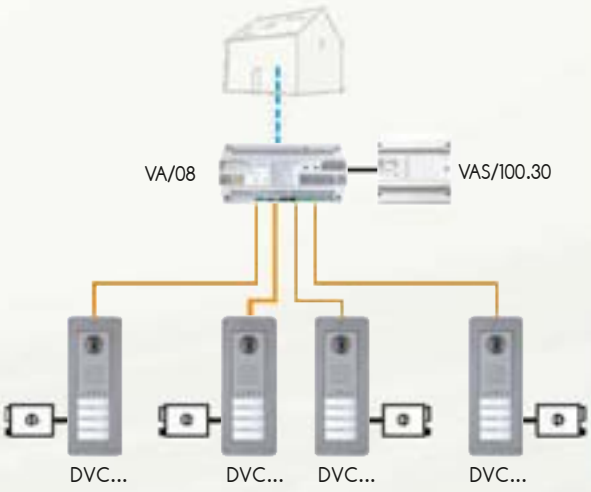
PERFORMANCE

THANGRAM ENTRY PANELS AND VA/08 POWER SUPPLY

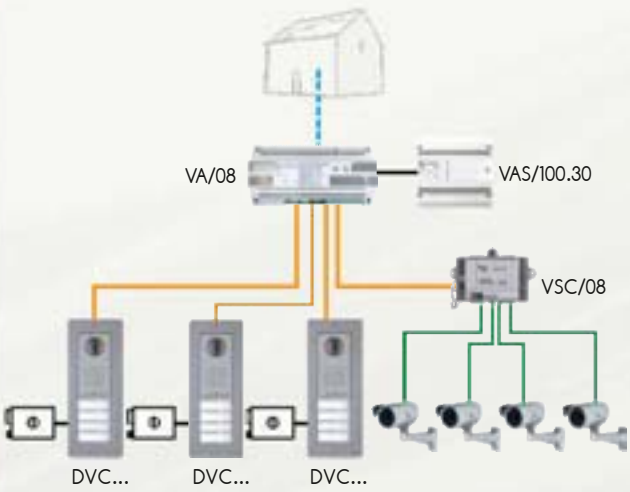
For a given riser whose characteristics remain unaltered, ...



... it is possible to create systems with 4 separate entrances connected in 'star' configuration and 100 receivers for each block.



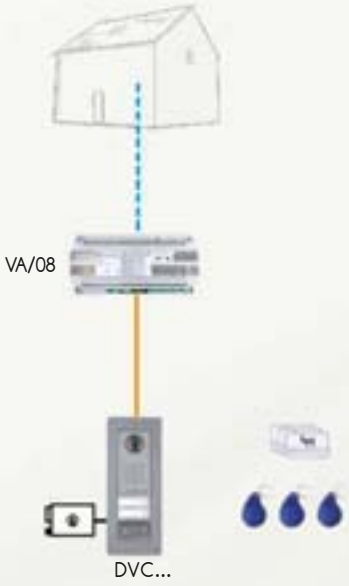
... or systems with cyclic selection of 4/8/12 video cameras that can be viewed from the receivers.



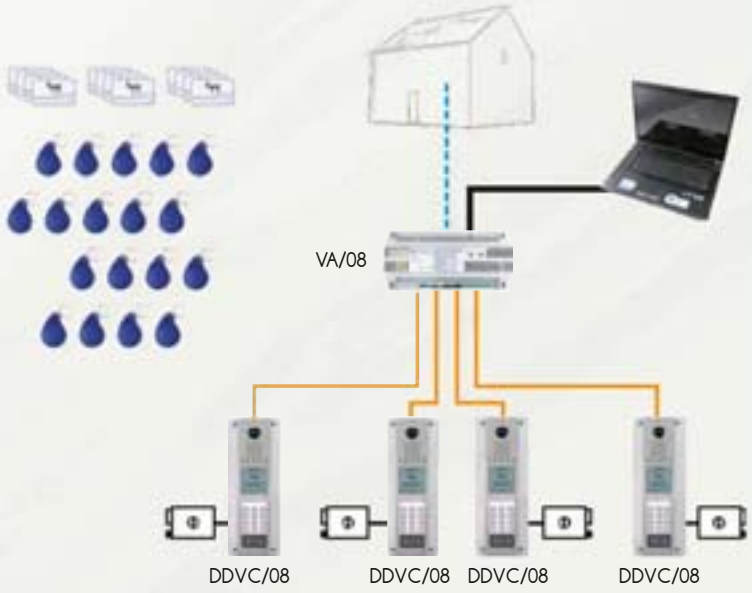
... using software programming via PC connected (via USB) to the power supply module or the entry panels or to any point of BUS through RIR/08

OR

... it is possible to create an access control system with manual programming for smaller residential systems.



... it is also possible to create programmed access control systems using programming software for large residential complexes with numerous users and access permits.



THE NUMBER OF POWER SUPPLY MODULES REQUIRED DEPENDS ON THE NUMBER OF ENTRY PANELS AND INTERNAL RECEIVERS IN THE AUDIO OR AUDIO-VIDEO ENTRY SYSTEM.

Systems **without access control** supplied as standard with VA/08 power supply module

	NUMBER OF ENTRY PANELS			
	1	2	3	4
From 1 to 64 receivers	0	0	1 x VAS/100.30 o 2 x VAS/101	
From 65 to 108 receivers	Install one additional XAS/301 to the riser and one VAS/101 for entry panel no. 1 (supplementary to those specified)			

Systems **with access control** supplied as standard with VA/08 power supply module

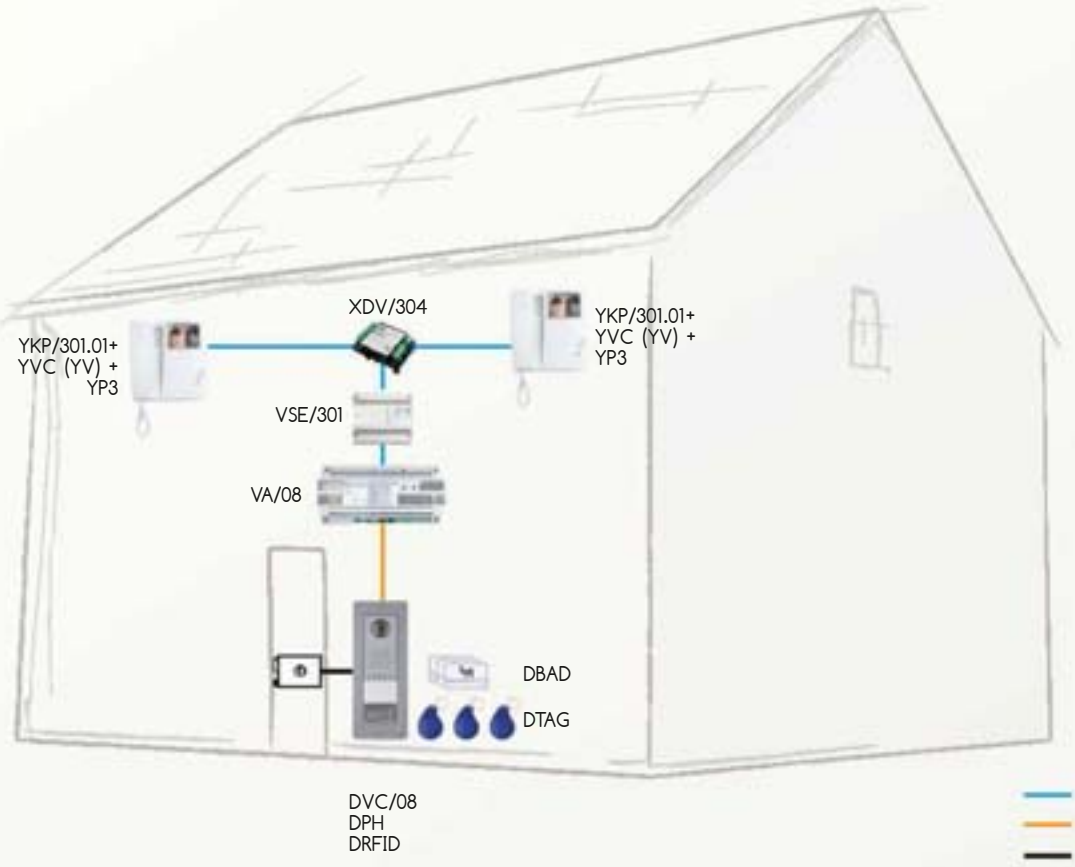
	NUMBER OF ENTRY PANELS			
	1	2	3	4
From 1 to 64 receivers	0	1xVAS/100.30 o 1xVAS/101	2xVAS/100.30 o 2xVAS/101	3xVAS/100.30 o 3xVAS/101
From 65 to 108 receivers	Install one additional XAS/301 to the riser and one VAS/101 for entry panel no. 1 (supplementary to those specified)			

EXAMPLES

SINGLE HOUSE SYSTEM WITH INTERCOM FUNCTION AND ACCESS CONTROL

In order to add the access control function to the system, it is sufficient to install an entry panel with a DRFID proximity key reader or the DNA access control keypad. The proximity keys or access codes can be programmed manually in just a few seconds. For increased security, the door lock release can be controlled remotely using the VLS/300 actuator (in this case the electric door lock must be powered separately).
In either case, the door lock can be connected directly to the entry panel. The use of the XDV/304 distributor makes it possible to connect the receivers in "star" configuration. The use of this module is not required if the receivers are connected in "daisy-chain" configuration.

SYSTEM WITH RECEIVER POWERED VIA BUS



DVC/08
DPS
DNA

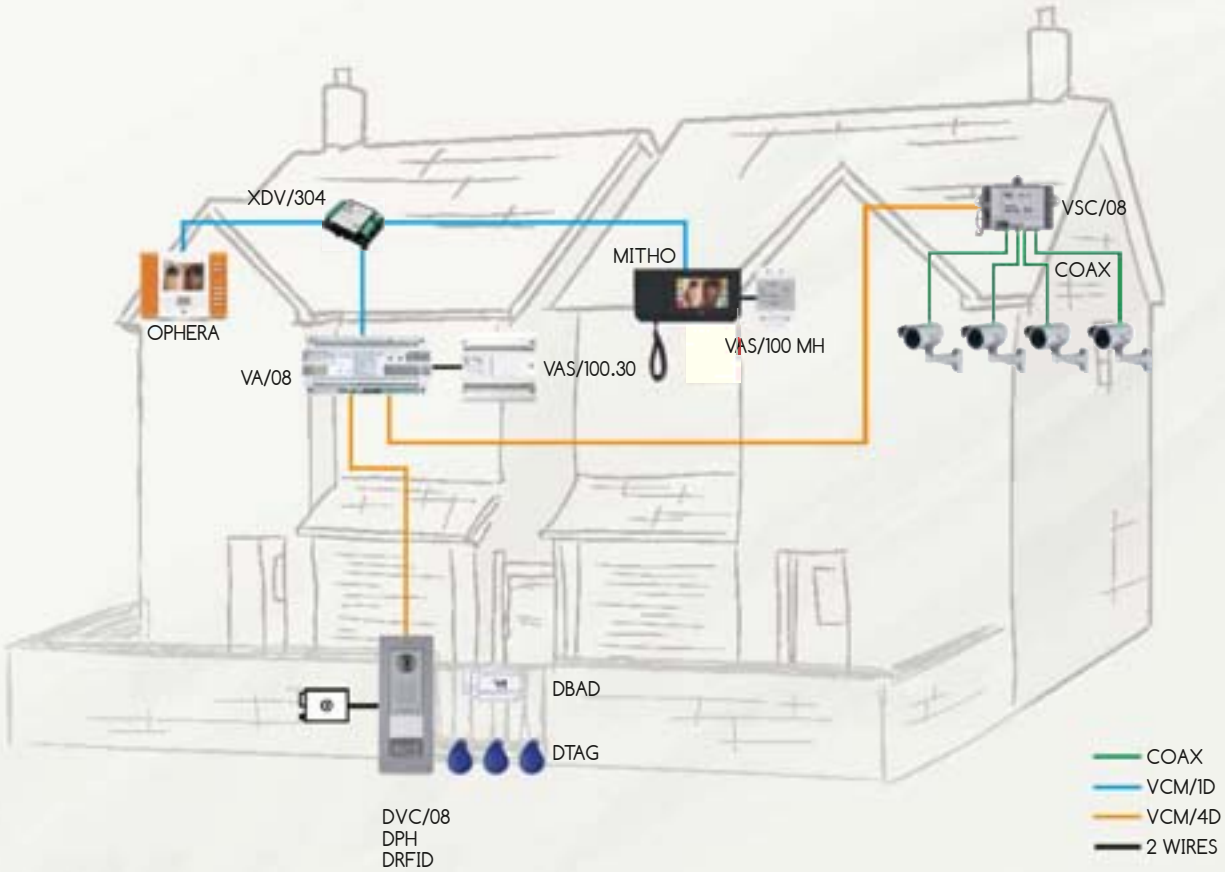
Alternative:
Thangram with DNA access control keypad

OF APPLICATIONS

SYSTEM FOR TWO-FAMILY HOUSE WITH ACCESS CONTROL AND EXTERNAL VIDEO-SURVEILLANCE

To add the access control function, it is sufficient to install an entry panel fitted with the DRFID proximity key reader or the DNA access control keypad. The proximity keys or the access codes can be programmed manually in just a few seconds. To add the external video-surveillance function, it is necessary to install the cyclic selector for 4 video cameras (VSC/01) and then to connect B&W cameras (video standard CCIR/EIA) or colour cameras (video standard PAL/NTSC). The images can be displayed manually in sequence from the receivers using the "self-connection" function. The use of the XDV/304 distributor makes it possible to connect the receivers in "star" configuration. The use of this module is not required if the receivers are connected in "daisy-chain" configuration.

SYSTEM WITH RECEIVER POWERED VIA BUS



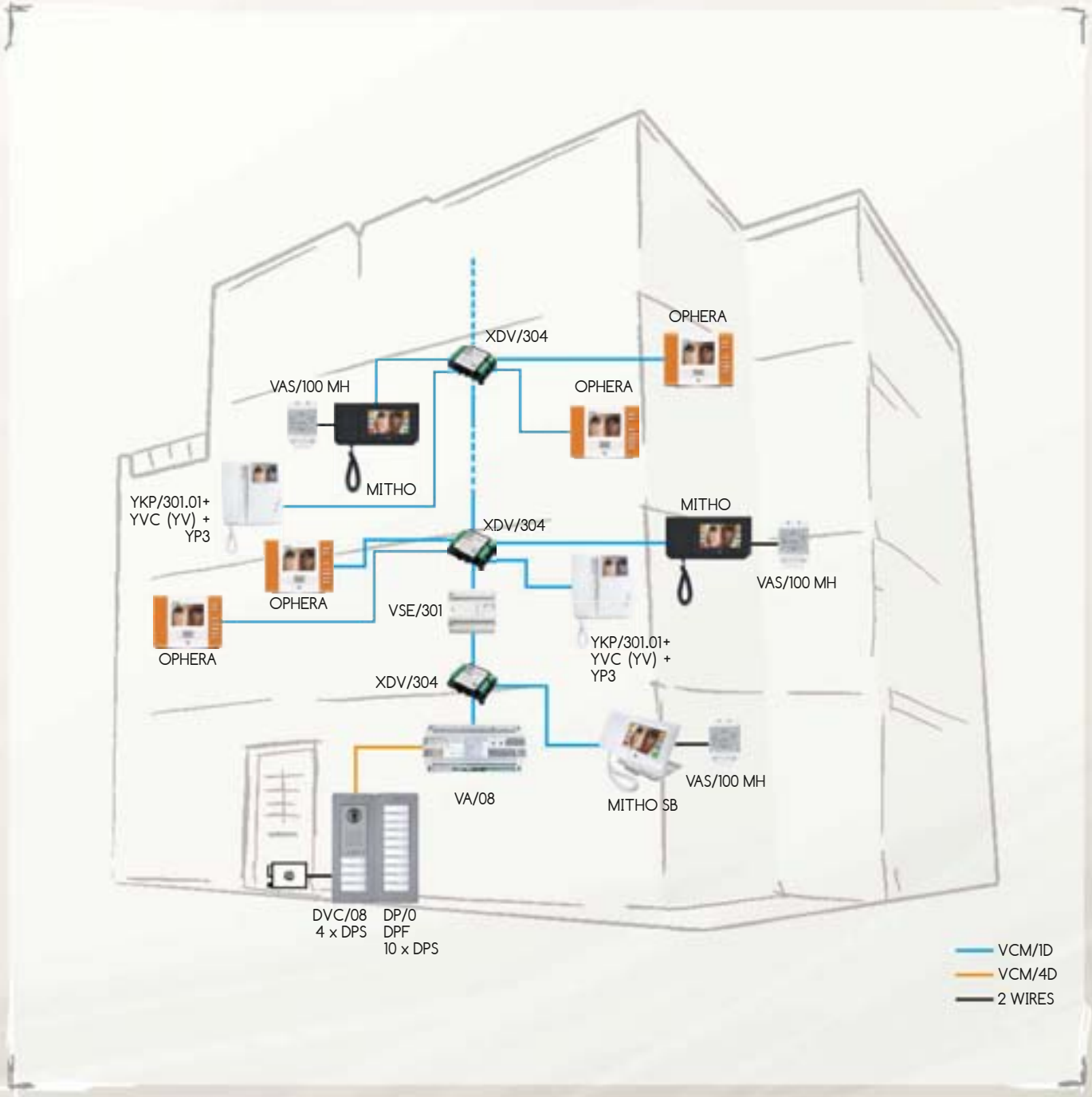
DVC/08
DPS
DNA

Alternative:
Thangram with DNA access control keypad

EXAMPLES OF

APARTMENT BLOCK WITH SINGLE ENTRANCE, INTERCOM FUNCTION AND PORTER SWITCHBOARD

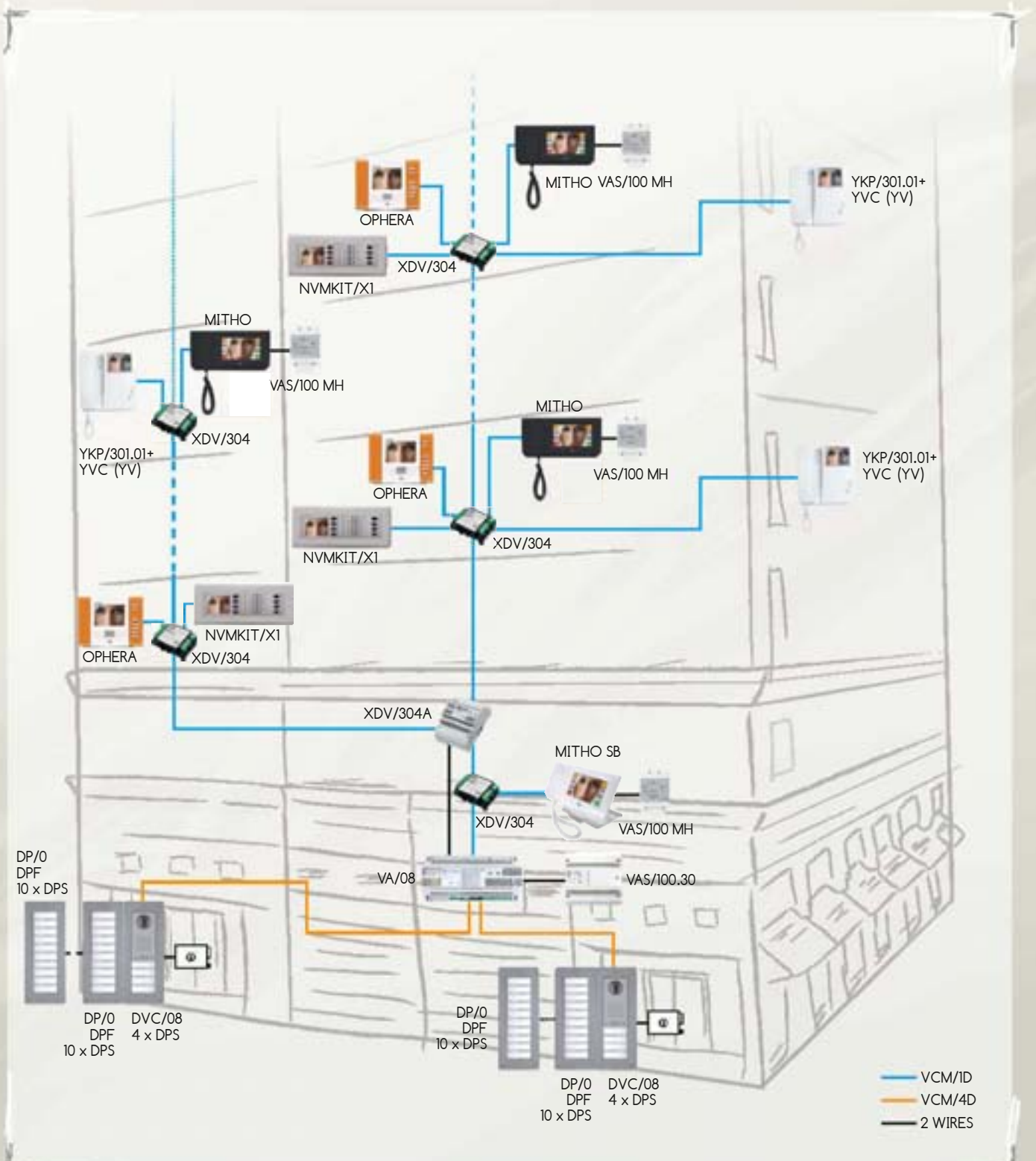
For this type of system, it is necessary to install the video entry panel and to fit one or more additional pushbutton panels depending on the number of lines that are required. For up to eight lines, it is sufficient to install a single video entry panel with double pushbuttons. The intercom function requires the addition of the VSE/301 selector downstream of the power module. All the apartments (up to 6/10 apartments depending on the receiver selected) can use the intercom function in which the confidentiality of the call is assured. A porter switchboard, too, can be installed and programmed at selected times of the day to intercept calls made to the receivers. The porter switchboard can also be used to call the receivers directly and to transfer calls made from the entry panels. For distribution of the signals along the riser and between the riser and the various apartments, it is necessary to utilize XDV/304 video signal distributors. Any of the receivers in our range may be selected for the apartments, with the exception of the NVMKIT/.. and YVL/301 models.



APPLICATIONS

APARTMENT BLOCK WITH MULTIPLE ENTRANCES, MULTIPLE STAIRCASES AND PORTER SWITCHBOARD

For this type of system, it is necessary to install the video entry panels (up to a maximum of three) and to fit one or more additional pushbutton panels depending on the number of lines that are required. The XDV/304A amplified video signal distributor distributes the signals towards the various staircases (up to a maximum of four outputs for four risers). A porter switchboard, too, can be installed and programmed at selected times of the day to intercept calls made to the receivers. The porter switchboard can also be used to call the receivers directly and to transfer calls made from the entry panels. Along the riser between the various apartments, it is necessary to utilize XDV/304 video signal distributors. Any of the receivers in our range may be selected for the apartments, with the exception of the NVMKIT/.. and YVL/301 models.



SYSTEM COMPONENTS

POWER SUPPLY MODULES

VA/08 code 62700020

Power supply module for video entry panel for XIP systems

Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 12 low-profile DIN modules. Protection rating IP30. Complete circuit board for control of entry panels (18 VDC - 1.1A max) and for control of the video entry system riser (20 VDC - 0.8A max). Electronic circuit-breaker for protection against overloads/short-circuits. Terminals for control of riser bus and terminals for connection of an audio/video/bus for 4 entry panels. Open-collector outputs for auxiliary functions (AUX1 and AUX2). RS232 serial ports (for future functions) and mini USB for programming from PC (with LED indicators for 'connection' and 'data being transferred'). Serial connector for network devices. Manual system programming button with indicator LED. Jumper for access to programming of access control devices (cards and keys). Powered by mains circuit 230 VAC 50/60 Hz.

VAS/101 code 62700011

Audio entry system and/or supplementary power module for X1/XIP systems.

Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 4 low-profile DIN modules. Protection rating IP30. Complete circuit board for power supply to entry panels and receivers (18 VDC - 1A max). Electronic circuit-breaker for protection against overloads/short-circuits. Terminals for control of riser bus. Fitted with terminals for connection of the device power supply modules. Powered by mains circuit 230 VAC 50/60 Hz.

VAS/100.30 code 62703310

Supplementary power module

Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 8 low-profile DIN modules. Protection rating IP30. Electronic circuit-breaker for protection against overloads/short-circuits. Complete with output terminals for power supply to devices (17.5 VDC - 1.7A max). Powered by mains circuit 230 VAC 50/60 Hz.

XAS/301 code 62704700

Power supply module/repeater for audio, video and data signals

Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 12 low-profile DIN modules. Protection rating IP30. Complete circuit board for device control (20 VDC - 0.8 A max). Electronic circuit-breaker for protection against overloads/short-circuits. Complete with terminals for control of IN and OUT bus and 9 switches for compensation of signals according to distance. Two LEDs for confirmation of connection and data transfer. Potentiometers for compensation of audio volume to and from the receiver. Powered by mains circuit 230 VAC 50/60 Hz.

VIDEO SIGNAL DISTRIBUTORS

XDV/304 code 62821300

4-output video signal distributor

Miniaturized housing for installation in junction boxes (dimensions 60x44x16 mm) or electrical control panels (EN50022), dimensions: 1 low-profile DIN module. Complete with 8 input terminals for 4 twisted pairs from the receivers and 4 terminals for IN/OUT connection from the riser. Line impedance closure switch for each output. Power supply directly from bus line.

XDV/304A code 62825800

4-output video signal distributor, amplified

Plastic housing for installation in electrical control panels (EN50022). Dimensions 4 low-profile DIN modules. Protection rating IP30. Complete with 8 input terminals for 4 twisted pairs from the receivers and 4 terminals for IN/OUT connection from the riser. Line impedance closure switch for each output. Power supply 14 - 18 VDC, 60mA.

SELECTORS

VSE/301 code 62747400

Intercom receiver selector

Plastic housing for installation in electrical control panels (EN50022). Dimensions: 8 low-profile DIN modules. Protection rating IP30. Complete with 4 terminals for IN/OUT to the bus line, as well as two switches for access to programming and resetting of the data stored in memory. Powered by mains circuit 230 VAC 50/60 Hz.

VSC/08 code 62740020

Manual cyclic selector for CCTV for XIP system

Miniaturized housing for installation in junction boxes (dimensions 85.5x60x21 mm) or electrical control panels (EN50022), dimensions: 1 low-profile DIN module. Complete with 8 input terminals for video signal from 4 standard B&W or colour video cameras (standard CCIR/EIA or PAL/NTSC) and three switches for programming of the video cameras connected. Key for access to programming mode. 7 LEDs indicating "video camera connected"and programming/data status. Powered by external power supply module 12 VDC 0.09A max.

SYSTEM COMPONENTS

PORTER SWITCHBOARD

MITHO SB NF code 62940020

Table-top porter switchboard

Table-top porter switchboard with 4.3" 16:9 touch screen, hands-free audio and handset, colour Fusion Black.

MITHO SB BI code 62940010

Table-top porter switchboard

Table-top porter switchboard with 4.3" 16:9 touch screen, hands-free audio and handset, colour Ice White.

OTHER COMPONENTS

ETI/SER XIP code 62740040

XIP system server

The server makes it possible to utilize the porter software, and also centralizes the access control and porter service functions. The unit is housed in a casing measuring 115x100x26 (WxDxH). Protection rating IP20. The server features one RJ45 connector for 10/100 ethernet, one HDMI socket for connection to a digital monitor (for diagnostics only), four USB ports for FW updates, back-ups or exporting the event logs. The server is supplied complete with a license for the utilization of the XIP/Porter software. Power supply 230 VAC 600 mA.

VLS/101 code 62816200

Relay unit for auxiliary devices (lights, apertures, acoustic alarms etc.).

Plastic housing for installation in electrical control panels (EN50022), dimensions 4 low-profile DIN modules. Protection rating IP30. The relay features impulse switching contacts for control of the electrical functions (switching power 5A resistive -2A inductive at a maximum voltage of 250 VAC) powered by direct or alternating current or by a low-voltage signal from the system. Power supply 10/24V AC/DC - 60 mA.

VLS/3 code 62800290

Triple-relay unit for auxiliary devices (lights, apertures, acoustic alarms etc.).

Plastic housing for installation in electrical control panels (EN50022), dimensions 4 low-profile DIN modules. Protection rating IP30. The three relays, with a switching contact, are associated by default to the door aperture and AUX2 commands from the receivers. Switching power 5A resistive (2A inductive) at a maximum voltage of 250 VAC. Complete with 2 active grounded inputs for connection of pushbuttons for local actioning of two of the three relays and a button for programming the method of activation of the receivers with LED to signal data reception from the BUS line.
Power supply 11/18 VDC 200 mA.

ETI/XIP code 62740030

XIP Gateway for ethernet

The ethernet gateway makes it possible to use the data network for the creation of an access control system. Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 8 low-profile DIN modules. Protection rating IP30. The circuit board includes a quick connector for VA/08 power supply modules, two RJ45 ports in "switch" configuration for ethernet 10/100 and terminals for direct connection to an entry panel. Also features three configurable inputs and a serial port for maintenance and diagnostics. Three LEDs for signalling of communication and system status. The gateway supports the XIP and SIP protocols. It utilizes H.264 video compression and ULAV audio compression and can handle up to two audio/video calls simultaneously. Also includes BDDE and access control functions. Power supply 18VDC 250 mA.

DREAD code 61800370

USB interface with keypad emulation for reading of RFID devices

Used to read devices for entering codes in programming software (tools and web).

XDV/303 code 62822600

Bidirectional video distributor, 8-unit slimline module with DIN guides.

Balanced video signal distributor for distribution or concentration of cable transmission lines.

RIR/08 code 62800330

Data line repeater for XIP system

Data line repeater for BPT's XIP digital video entry system. Designed for installation on DIN guides either on the wall or built into watertight embedding boxes.

XDV/300A code 62822000

Device for restoring/regenerating modulated video signals on X1 systems

Miniaturized housing for installation in junction boxes (dimensions 60x44x16 mm) or electrical control panels (EN50022), dimensions: 1 low-profile DIN module. Complete with IN/OUT terminals for video signal and 2 switches for compensation of the signals according to the method of connection. Power supply directly from X1 bus line. Absorption 20 mA max.

SYSTEM COMPONENTS

KDIN6 code 61800450
Kit with DIN guide and terminal covers for 6 modules power supply.

KDIN4 code 61800430
Kit with DIN guide and terminal covers for 4 modules power supply.

PROGRAMMING SOFTWARE

PCS/XIP code 62800310
Programming software for X1 and XIP systems
for Windows XP (SP2) operating system or later
System requirements: PC with PENTIUM III 700 MHz processor or better, 256 MB available RAM, minimum space on HD 40 MB, XVGA video card. Contents of box: USB cable, length 4.5m, 2 GB pen drive. Disk includes software and user manual.

PCS/PORTER code 62800320
License for the utilization of the porter software - single user

SOFT RECEIVER LICENSE

LIC/SR001 code 62880050
Single user license

LIC/SR010 code 62880060
10-user software IP license

LIC/SR050 code 62880070
50-user software IP license

LIC/SR100 code 62880080
100-user software IP license

LICENSES FOR GENERIC SIP TERMINALS

LIC/GST001 code 62880010
Single user license

LIC/GST010 code 62880020
10-user software license

LIC/GST050 code 62880030
50-user software license

LIC/GST100 code 62880040
100-user software license

CONNECTOR CABLES

VCM/1D code 62828000

Cable with 1 mm² twisted pair

PVC insulating sheath, diameter 7 mm, colour: RAL 1021 yellow. Twist pitch 10 twists/m. Tinned copper wires, colours: RAL 9001 white and RAL 5015 blue. Nominal impedance 100 ohm (f=1 MHz), capacitance 50 pF (at 20°C). Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment).
Supplied in 100m coils.

VCM/1D/500 code 62828100

Cable with 1 mm² twisted pair

PVC insulating sheath, diameter 7 mm, colour: RAL 1021 yellow. Twist pitch 10 twists/m. Tinned copper wires, colours: RAL 9001 white and RAL 5015 blue. Nominal impedance 100 ohm (f=1 MHz), capacitance 50 pF (at 20°C). Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment).
Supplied in 500m coils.

VCM/2D code 62823300

Cable with 0.28 mm² twisted pair and 2 wires (section 1 mm²).

PVC insulating sheath, diameter 8 mm, colour: RAL 1021 yellow. Twisted pair, 70mm twist pitch. Tinned copper wires. Colour: white/light blue and light blue for twisted pair - red and green for power supply wires. Nominal impedance of twisted pair 100 ohm (f=1 MHz), capacitance 50 pF (at 20°C). Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment), CEI 20-11 (latest amendment), CEI 20-37.
Supplied in 100m coils

VCM/2D/500 code 62823400

Cable with 0.28 mm² twisted pair and 2 wires (section 1 mm²).

PVC insulating sheath, diameter 8 mm, colour: RAL 1021 yellow. Twisted pair, 70mm twist pitch. Tinned copper wires. Colour: white/light blue and light blue for twisted pair - red and green for power supply wires. Nominal impedance of twisted pair 100 ohm (f=1 MHz), capacitance 50 pF (at 20°C). Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment)/CEI 20-11 (latest amendment)/CEI 20-37.
Supplied in 500m coils

VCM/4D code 62823600

Cable with three 0.28 mm² twisted pairs and 2 wires (section 1.5 mm²).

PVC insulating sheath, diameter 11 mm, colour: RAL 1021 yellow. Twisted pair, 70 mm twist pitch. Tinned copper wires. Colour: blue/blue-white, brown/brown-white, orange/orange-white for twisted pairs - red and green for power supply wires. Nominal impedance of twisted pairs 100 ohm (f=1 MHz), capacitance 50 pF (at 20°C). Minimum cable curvature 150 mm. Fully compliant with CEI 46-6 (latest amendment)/CEI 20-11 (latest amendment)/CEI 20-37.
Supplied in 100m coils

VCM/4D/500 code 62823700

Cable with three 0.28 mm² twisted pairs and 2 wires (section 1.5 mm²).

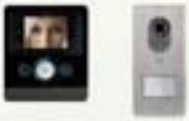
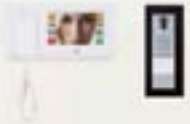
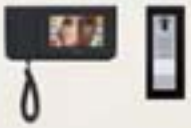
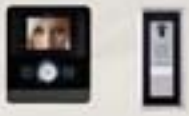
PVC insulating sheath, diameter 11 mm, colour: RAL 1021 yellow. Twisted pair, 70 mm twist pitch. Tinned copper wires. Colour: blue/blue-white, brown/brown-white, orange/orange-white for twisted pairs - red and green for power supply wires. Nominal impedance of twisted pairs 100 ohm (f=1 MHz), capacitance 50 pF (at 20°C). Minimum cable curvature 150 mm. Fully compliant with CEI 46-6 (latest amendment)/CEI 20-11 (latest amendment)/CEI 20-37.
Supplied in 500m coils

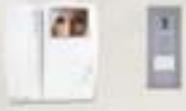
KIT

BPT's video entry systems with Thangram and Lithos receivers offer a full range of simple and intuitive solutions designed to meet any installation requirement. The Thangram and Lithos receivers offer the highest level of fl exibility and superlative performance for every type of installation, from single homes – for which we have created the Lithos entry panel – to the largest residential complex, thanks to the infi nite modularity of Thangram.
BPT focuses ever more closely on eco-sustainability, as may be seen from the new packaging, which uses recyclable materials to assure the smallest possible environmental impact.

KIT
• Kit videocitofonico
• Door entry kit
• Kit portier vidéo
• Videosprechanlage Set
• Kit videoportero
• Kit videoporteiro
• Kit videointercomunicador
bpt

CHOOSING THE KIT

		OPALE	PERLA	MITHO
KIT LITHOS For single-family and two-families X1 two-wire systems.		LVKITOPL04 code 62620630 LVKITPEV14 code 62620640 	LVKITPEV04 code 62620450 LVKITPEV14 code 62620460  LCKITPEC04 code 61700090 	
KIT THANGRAM From the single-family home to multiple-block residential complexes.	BASIC			BVKITMTH01 code 62620190  BVKITMTH11 code 62620210 
	EVOLUTION	EVKITOPL01 code 62620580 EVKITOPL11 code 62620590 	EVKITPEV01 code 62620430 EVKITPEV11 code 62620440 	

NOVA	OPHERA	LYNEA	LYNEA BASIC	
	LVKITOPH04 code 62620340 	LCKITYCA04 code 61700050 	LVKITYVCL04 code 62620330 LVKITYVL04 code 62620320 	
BVKITNVM01 code 62620160 BVKITNVM31 code 62620180 BVKITNVM21 code 62620170 	BVKITOPH00 code 62620140 BVKITOPH20 code 62620150 	BVKITYVC00 code 62620130 BVKITYV00 code 62620090 BVKITYCL00 code 62620420 	BVKITYVL00 code 62620080 	BASIC
	EVKITOPH01 code 62620230 EVKITOPH21 code 62620240 	EVKITYVC01 code 62620220 EVKITYV01 code 62620120 	EVKITYVCL00 code 62620350 EVKITYVL00 code 62620110 	EVOLUTION

THANGRAM KIT

BPT's most extensive and complete range of products, designed to meet every possible installation requirement, from the single-family home to multiple-block residential complexes, thanks to the infinite modularity of the Thangram entry panel. The Thangram kit is also available in a version for the new digital-technology Xip system, which offers considerably superior performance.

COMPOSITION OF THE KIT

The kit is available in two different categories depending on the type of utilization and the expandability of the functions and/or the system itself. Within these two categories, the user can select the preferred kit on the basis of the styling and design on the monitor and/or the entry panel.

STEP 1: SELECTING THE CATEGORY OF THE KIT FOR THE SYSTEM

All the kits provide the following functions:

- System for single-family home
- System for two-family home (requires only a second monitor)
- Audio/video call confidentiality
- Door lock release
- Auxiliary commands
- Self-connection of system
- Call from landing/secondary entrance
- Colour or B&W video receivers

BASIC KIT

The kit in the **Basic** category is ideal for systems ranging from single-family systems to condominiums, and offer numerous receivers with wide range of functions such as intercom (within one apartment or between different apartments) and a choice of melodies for calls from the landing and the entry panel. The systems are simple to wire up and extremely quick and easy to programme.

- 5 MONITORS IN SIMULTANEOUS CALL MODE
- FOR CONDOMINIUMS WITH UP TO 100 APARTMENTS
- 1 ENTRY PANEL
- SYSTEMS WITH INTERCOM FUNCTION

EVOLUTION KIT

The **Evolution** kit is suitable for single-family homes, but can also be used as a system on which to base multi-block installations or systems in residential complexes with multiple entry panels. The systems are simple to wire up and extremely quick and easy to programme.

- 5 MONITORS IN SIMULTANEOUS CALL MODE
- FOR CONDOMINIUMS WITH UP TO 100 APARTMENTS
- 3 ENTRY PANELS
- SYSTEMS WITH INTERCOM FUNCTION
- ACCESS CONTROL
- PROGRAMMING SOFTWARE

STEP 2: CHOOSING THE KIT: RECEIVER AND ENTRY PANEL

For each receiver (Mitho, Ophera, Lynea and Nova), BPT has created a kit complete with power supply module and a Thangram entry panel. Simply select the preferred receiver to create a fully-functional single-family video entry system.

COMPOSITION OF THE CODE

The kits in BPT's range are now identified with newly-structured product codes as shown in the table below.

Example of code: **BVKITOPH21**

1 TYPE OF KIT		2 TYPE OF PRODUCT		3 KIT	4 RECEIVER		5 MONITOR COLOURS		6 ENTRY PANEL	
B	Basic	V	Video	KIT	YVL	Lynea Basic	0	White	0	Thangram GH
E	Evolution	C	Audio		YV	Lynea Standard	1	Black	1	Thangram Metal
					YVC	Lynea Colori	2	Silver	2	Targha GH
					OPH	Ophera	3	Grey	3	Targha ST
					NVM	Nova				
					MTH	Mitho				

BPT GOGREEN. ECO-FRIENDLY BOX

For BPT, the concept of ecological sustainability means focusing on responsible conduct in every company process, whether for production or for management, and investing significant resources in eco-friendly projects, ideas and solutions.
As part of this concept of sustainability, BPT has created new packaging boxes for its video entry kits with Thangram and Lithos entry panels.
The new packaging has enabled us to reduce the emission into the atmosphere of harmful substances as well as prevent wastage of valuable resources.
In addition, we have rationalized the codes and formats so that, in addition to the use of a uniform graphic image, the new boxes are compatible with all the models in the new kits as well as being more immediately recognizable.

KIT BASIC
THANGRAM BASIC KIT - CODES AND ARTICLES

MITHO

BVKITMTH01 code 62620190

MITHO BI	Colour video receiver, recessed installation, 16:9 4.3" touch-screen, hands-free and handset audio, colour: Ice White
DVC/01 ME	Colour video entry panel, colour: Metal
DPF NF	Décor panel in anodized aluminium, colour Matt Black
DPH	Double-height pushbutton
DTH ME	Double-height cover, colour: Metal
VAS/100.30	Power supply module, 230 V, 8 DIN module

MITHO

BVKITMTH11 code 62620210

MITHO NF	Colour video receiver, recessed installation, 16:9 4.3" touchscreen, integrated hands-free and handset audio, colour: Fusion Black
DVC/01 ME	Colour video entry panel, colour: Metal
DPF NF	Décor panel in anodized aluminium, colour Matt Black
DPH	Double-height pushbutton
DTH ME	Double-height cover, colour: Metal
VAS/100.30	Power supply module, 230 V, 8 DIN module

OPHERA

BVKITOPH00 code 62620140

OPHERA	Video receiver with hands-free intercom for recessed installation, colour of body: White
DVC/01	Colour video entry panel, colour: Greyhound, complete with décor panel, colour: Aluminium
DPH	Double-height pushbutton
DTH	Double-height cover, colour: Greyhound
VAS/100.30	Power supply module, 230 V, 8 DIN module

OPHERA

BVKITOPH20 code 62620150

OPHERA SV	Video receiver with hands-free intercom for recessed installation, colour of body: Silver
DVC/01	Colour video entry panel, colour: Greyhound, complete with décor panel, colour: Aluminium
DPH	Double-height pushbutton
DTH	Double-height cover, colour: Greyhound
VAS/100.30	Power supply module, 230 V, 8 DIN module

KIT BASIC

BVKITNVM01 code 62620160

NVMKIT/X1 BI	Colour video receiver, hands-free audio, 2" display, White
DVC/01 ME	Colour video entry panel, colour: Metal
DPF NF	Décor panel in anodized aluminium, colour Matt Black
DPH	Double-height pushbutton
DTH ME	Double-height cover, colour: Metal
VAS/100.30	Power supply module, 230 V, 8 DIN module

NOVA

BVKITNVM21 code 62620170

NVMKIT/X1 SV	Colour video receiver, hands-free audio, 2" display, Silver
DVC/01 ME	Colour video entry panel, colour: Metal
DPF NF	Décor panel in anodized aluminium, colour Matt Black
DPH	Double-height pushbutton
DTH ME	Double-height cover, colour: Metal
VAS/100.30	Power supply module, 230 V, 8 DIN module

NOVA

BVKITNVM31 code 62620180

NVMKIT/X1 GR	Colour video receiver with hands-free audio, 2" display, colour: Anthracite Grey
DVC/01 ME	Colour video entry panel, colour: Metal
DPF NF	Décor panel in anodized aluminium, colour Matt Black
DPH	Double-height pushbutton
DTH ME	Double-height cover, colour: Metal
VAS/100.30	Power supply module, 230 V, 8 DIN module

NOVA

BVKITYVC00 code 62620130

YVC + YKP/301	4" colour monitor module + receiver module, colour: White
DVC/01	Colour video entry panel, colour: Greyhound, complete with décor panel, colour: Aluminium
DPH	Double-height pushbutton
DTH	Double-height cover, colour: Greyhound
VAS/100.30	Power supply module, 230 V, 8 DIN module

LYNEA COLORE

KIT BASIC
THANGRAM BASIC KIT - CODES AND ARTICLES

LYNEA B/N

BVKITYV00 code 62620090

YV + YKP/301	4" B&W monitor module + intercom module, colour: White
DVC/01	Colour video entry panel, colour: Greyhound, complete with décor panel, colour: Aluminium
DPH	Double-height pushbutton
DTH	Double-height cover, colour: Greyhound
VAS/100.30	Power supply module, 230 V, 8 DIN module

LYNEA BASIC

BVKITYVCL00 code 62620420

YVCL	Complete video receiver, 3,5" colour monitor
DVC/01	Colour video entry panel, colour: Greyhound, complete with décor panel, colour: Aluminium
DPH	Double-height pushbutton
DTH	Double-height cover, colour: Greyhound
VAS/100.30	Power supply module, 230 V, 8 DIN module

LYNEA BASIC

BVKITYVL00 code 62620080

YVL301	Complete video receiver, 4" B&W monitor, colour: White
DVC/01	Colour video entry panel, colour: Greyhound, complete with décor panel, colour: Aluminium
DPH	Double-height pushbutton
DTH	Double-height cover, colour: Greyhound
VAS/100.30	Power supply module, 230 V, 8 DIN module

THANGRAM EVOLUTION KIT - CODES AND ARTICLES

EVKITOPL01 code 62620580

OPALE WHITE	Video receiver with hands-free intercom, recessed installation, colour Ice Withe
DVC/01 ME	Colour video entry panel, colour: Metal
DPF NF	Décor panel in anodized aluminium, colour Matt Black
DSI	Embedding box
DCI ME	Frame for recessed installation, colour: Metal
DPS	Single pushbutton
DTS ME	3 single covers, colour: Metal
VA/01	Power supply module, 230 V, 12 DIN module

OPALE

EVKITOPL11 code 62620590

OPALE BLACK	Video receiver with hands-free intercom, recessed installation, colour Fusion Black
DVC/01 ME	Colour video entry panel, colour: Metal
DPF NF	Décor panel in anodized aluminium, colour Matt Black
DSI	Embedding box
DCI ME	Frame for recessed installation, colour: Metal
DPS	Single pushbutton
DTS ME	3 single covers, colour: Metal
VA/01	Power supply module, 230 V, 12 DIN module

OPALE

EVKITPEV01 code 62620430

PEV BI	Video receiver with hands-free intercom, wall-mount installation, colour Ice Withe
DVC/01 ME	Colour video entry panel, colour: Metal
DPF NF	Décor panel in anodized aluminium, colour Matt Black
DSI	Embedding box
DCI ME	Frame for recessed installation, colour: Metal
DPS	Single pushbutton
DTS ME	3 single covers, colour: Metal
VA/01	Power supply module, 230 V, 12 DIN module

PERLA

EVKITPEV11 code 62620440

PEV NF	Video receiver with hands-free intercom, wall-mount installation, colour Fusion Black
DVC/01 ME	Colour video entry panel, colour: Metal
DPF NF	Décor panel in anodized aluminium, colour Matt Black
DSI	Embedding box
DCI ME	Frame for recessed installation, colour: Metal
DPS	Single pushbutton
DTS ME	3 single covers, colour: Metal
VA/01	Power supply module, 230 V, 12 DIN module

PERLA

KIT EVOLUTION

THANGRAM EVOLUTION KIT - CODES AND ARTICLES

OPHERA

EVKITOPH01 code 62620230

OPHERA	Video receiver with hands-free intercom, recessed installation, colour of body: White
DVC/01 ME	Colour video entry panel, colour: Metal
DPF NF	Décor panel in anodized aluminium, colour Matt Black
DSI	Embedding box
DCI ME	Frame for recessed installation, colour: Metal
DPS	Single pushbutton
DTS ME	3 single covers, colour: Metal
VA/01	Power supply module, 230 V, 12 DIN module

OPHERA

EVKITOPH21 code 62620240

OPHERA SV	Video receiver with hands-free intercom, recessed installation, colour of body: Silver
DVC/01 ME	Colour video entry panel, colour: Metal
DPF NF	Décor panel in anodized aluminium, colour Matt Black
DSI	Embedding box
DCI ME	Frame for recessed installation, colour: Metal
DPS	Single pushbutton
DTS ME	3 single covers, colour: Metal
VA/01	Power supply module, 230 V, 12 DIN module

LYNEA COLORE

EVKITYVC01 code 62620220

YVC + YKP/301	4" colour monitor module + receiver module, colour: White
DVC/01 ME	Colour video entry panel, colour: Metal
DPF NF	Décor panel in anodized aluminium, colour Matt Black
DSI	Embedding box
DCI ME	Frame for recessed installation, colour: Metal
DPS	Single pushbutton
DTS ME	3 single covers, colour: Metal
VA/01	Power supply module, 230 V, 12 DIN module

LYNEA B/N

EVKITYV01 code 62620120

YV + YKP/301	4" B&W monitor module + receiver module, colour: White
DVC/01 ME	Colour video entry panel, colour: Metal
DPF NF	Décor panel in anodized aluminium, colour Matt Black
DSI	Embedding box
DCI ME	Frame for recessed installation, colour: Metal
DPS	Single pushbutton
DTS ME	3 single covers, colour: Metal
VA/01	Power supply module, 230 V, 12 DIN module

KIT EVOLUTION

EVKITYVCL00 code 62620350

LYNEA BASIC

YVCL301	Complete video receiver with 3,5" colour monitor, colour: White
DVC/01	Colour video entry panel, colour: Greyhound, complete with décor panel, colour: Aluminium
DSI	Embedding box
DCI	Frame for recessed installation, colour: Greyhound
DPS	Single pushbutton
DTS	3 single covers, colour: Greyhound
VA/01	Power supply module, 230 V, 12 DIN module

EVKITYVL00 code 62620110

LYNEA BASIC B/N

YVL301	Complete video receiver with 4" B&W monitor, colour: White
DVC/01	Colour video entry panel, colour: Greyhound, complete with décor panel, colour: Aluminium
DSI	Embedding box
DCI	Frame for recessed installation, colour: Greyhound
DPS	Single pushbutton
DTS	3 single covers, colour: Greyhound
VA/01	Power supply module, 230 V, 12 DIN module

LITHOS KIT

The new BPT kit for single-family and two-families X1 two-wire systems.
Equipped with the intercom facility (without additional power supply).
All available with the X1 video entry system, only two wires.

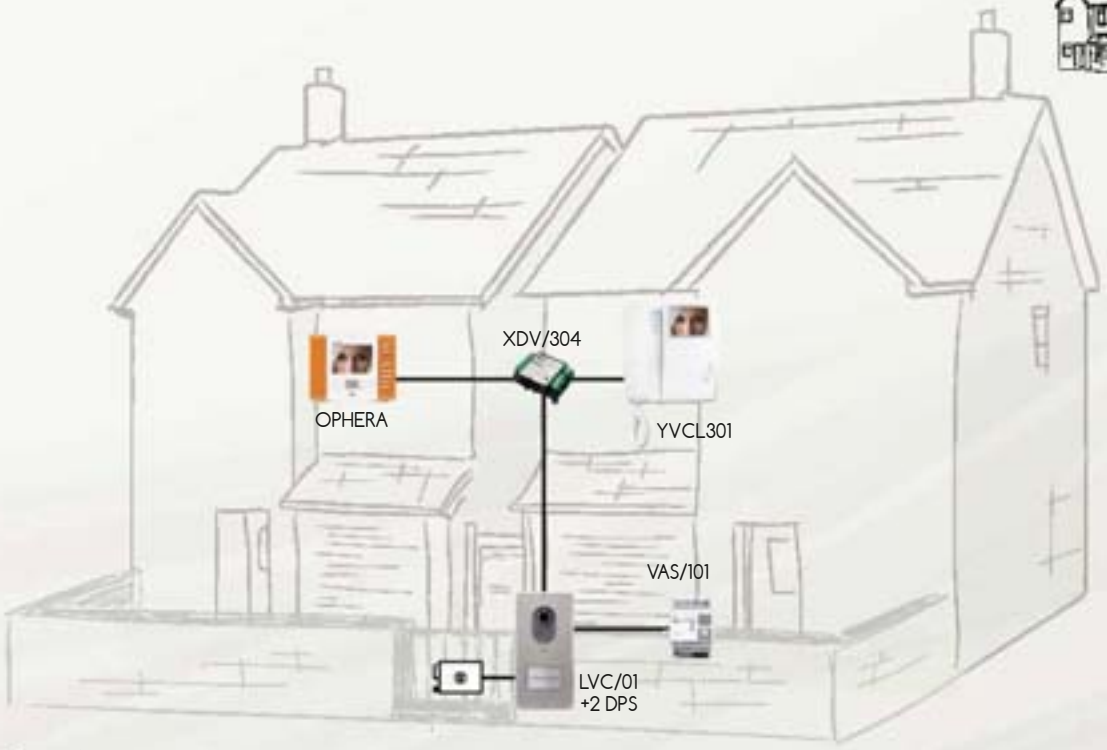
STANDARD FUNCTIONS

All kits are supplied complete with:

- Audio/video confidentiality
- Electric lock aperture
- Auxiliary controls (to be added separately for VLS/300)
- Self-connection of system
- Call from landing/secondary entrance
- Colour of B&W video receivers
- Intercom function without additional wiring
- Two wires only
- Colour camera

EXAMPLE OF APPLICATION - SINGLE HOUSE

EXAMPLE OF APPLICATION - TWO-FAMILY HOUSE



LITHOS KIT - CODES AND ARTICLES

LVKITOPL04 code 62620630

OPALE WHITE	Video receiver with hands-free intercom, recessed installation, colour Ice Withe
LVC/01	Colour Lithos video entry panel, X1 System
DPH	Double height pushbuttom
VAS/101	Power supply module 230V, 50Hz, 60VA, 4 low profile DIN modules

OPALE

LVKITOPL14 code 62620640

OPALE BLACK	Video receiver with hands-free intercom, recessed installation, colour Fusion Black
LVC/01	Colour Lithos video entry panel, X1 System
DPH	Double height pushbuttom
VAS/101	Power supply module 230V, 50Hz, 60VA, 4 low profile DIN modules

OPALE

LVKITPEV04 code 62620450

PEV BI	Video receiver with hands-free intercom, wall-mount installation, colour Ice Withe
LVC/01	Colour Lithos video entry panel, X1 System
DPH	Double height pushbuttom
VAS/101	Power supply module 230V, 50Hz, 60VA, 4 low profile DIN modules

PERLA

LVKITPEV14 code 62620460

PEV NF	Video receiver with hands-free intercom, wall-mount installation, colour Fusion Black
LVC/01	Colour Lithos video entry panel, X1 System
DPH	Double height pushbuttom
VAS/101	Power supply module 230V, 50Hz, 60VA, 4 low profile DIN modules

PERLA

LCKITPEC04 code 61700090*

PEC BI	Audio receiver with hands-free intercom, wall-mount installation, colour Ice Withe
LC/01	Colour Lithos video entry panel, X1 System
DPH	Double height pushbuttom
VAS/101	Power supply module 230V, 50Hz, 60VA, 4 low profile DIN modules

PERLA AUDIO

LCKITPEC04B code 61700110

Two-family house

PEC BI	Two audio receivers with hands-free intercom, wall-mount installation, colour Ice Withe
LC/01	Colour Lithos video entry panel, X1 System
DPS	Single pushbutton
VAS/101	Power supply module 230V, 50Hz, 60VA, 4 low profile DIN modules

PERLA AUDIO

(*) Also available with video reciver "Opale" Fusion black code 61700130.

LITHOS KIT - CODES AND ARTICLES

OPHERA

LVKITOPH04 code 62620340

OPHERA	Video receiver with hands-free intercom, recessed installation, colour of body: White
LVC/01	Colour Lithos video entry panel, X1 System
DPH	Double height pushbuttom
VAS/101	Power supply module 230V, 50Hz, 60VA, 4 low profile DIN modules

LYNEA BASIC COLORE

LVKITYVCL04 code 62620330

YVCL301	Complete video receiver with 3.5" LCD colour monitor, colour: White
LVC/01	Colour Lithos video entry panel, X1 System (without DPH pushbuttom)
DPH	Double height pushbuttom
VAS/101	Power supply module 230V, 50Hz, 60VA, 4 low profile DIN modules

LYNEA BASIC B/N

LVKITYVL04 code 62620320

YVL301	Complete video receiver with 4" B&W monitor, colour: White
LVC/01	Colour Lithos video entry panel, X1 System (without DPH pushbuttom)
DPH	Double height pushbuttom
VAS/101	Power supply module 230V, 50Hz, 60VA, 4 low profile DIN modules

LYNEA BASIC AUDIO

LCKITYCA04 code 61700050

YC/300A	Multifunction audio receiver, colour: White
LC/01	Audio entry panel (without DPH pushbottom)
DPH	Double height pushbuttom
VAS/101	Power supply module 230V, 50Hz, 60VA, 4 low profile DIN modules

LYNEA BASIC AUDIO

LCKITYCA04B code 61700060

Two-family house

YC/300A	2 Multifunction audio receivers, colour: White
LC/01	Audio entry panel (without DPH pushbottom)
DPS	Single pushbutton
VAS/101	Power supply module 230V, 50Hz, 60VA, 4 low profile DIN modules

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62940010	MITHO SB BI	21-87-123
62940020	MITHO SB NF	21-87-123
67000700	VAS/100MH	21

CERTIFICATES OF QUALITY

The Production Control system at BPT is certified to the following international standards: UNI EN ISO9001 and UNI EN ISO14001. This means that all the processes carried out by the company are closely supervised and controlled in order to guarantee the maximum possible efficiency and effectiveness in terms of the quality of our products and services.
The Quality Control system (certified to ISO9001), which was implemented several years ago at BPT, operates in parallel with the Environmental Management System (certified to ISO14001) concerning sustainability and the safeguarding of the environment.
BPT takes the greatest care in selecting the materials used for its products, and utilizes eco-friendly manufacturing technologies.
In addition to this, as part of the company's efforts to bring about continuous improvement in every aspect that impacts the environment, BPT has implemented a strategic plan aimed at reducing energy consumption, as well as a number of major measures designed to prevent damage to the environment and to improve customer service.
We at BPT are firmly convinced that our Environmental Management System, together with the Quality Control system, is a significant factor in stimulating us to continue in our efforts towards maintaining and increasing our professional expertise in terms of the design and construction of the product.

The appliances described in this catalogue are all designed for civilian applications.
Appliances with voltage and frequency requirements different from those shown in the catalogue may be supplied on request.
BPT reserves the right to modify the products at any time without prior notice.

bpt ENVIRONMENTALLY RESPONSIBLE

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